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WATER SUPPLY OUTLOOK FOR MONTANA

U.S. DEPT. OF AGRICULTURE

OCT 23 '75

PROCUREMENT SECTION
CURRENT SERIAL RECORDS



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with
MONTANA AGRICULTURAL EXPERIMENT STATION

SNOW PILLOW RECORDS
1975 WATER YEAR

Data included in this report were obtained by the agencies named above in cooperation
with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Cabins near Sacajawea Snow Course
in Bridger Mountains, Montana.*

SCS PHOTO 1-1-P480-15

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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MONTANA FALL SUMMARY
October 1, 1975

*
*
* A cool spring delayed snowmelt runoff *
* three to four weeks later than normal. *
* In late June, peak snowmelt added to *
* heavy rains to produce large flows in *
* many Missouri River tributaries and *
* some of the Columbia River drainages *
* near the Continental Divide. Extensive *
* flooding occurred in the Sun, Teton, *
* Musselshell, Middle Fork Flathead, *
* and Blackfoot River drainages.
*
* *

COLUMBIA RIVER DRAINAGE

Snowfall started on drier than usual soils and the accumulation of snowpack was below average in early winter. Storm intensity increased and melt was minimal until early May even at lower elevations. The combination of cool temperatures and snowfall resulted in a very large May 1 snowpack particularly in lower elevations. Cool weather persisted with most major streams not reaching their snowmelt peak until after mid-June. Heavy precipitation originating from a major storm system on the east side of the Continental Divide combining with peak snowmelt produced large peak flows primarily in the Middle Fork Flathead River and Upper Blackfoot.

August was generally a wet month and helped maintain good soil moisture. Precipitation since has been light and surface soils are generally showing some dryness.

The need for stored water was less than normal and most irrigation reservoirs have above average storage to be carried over to next year.

MISSOURI RIVER DRAINAGE

Early season snowfall was generally below average except for a few small areas with higher than usual snowpack. Soils were generally drier than normal prior to snowfall. Snowfall increased and by April 1, most drainages had snowpack near or above average. A cool, late spring prevented melt even at lower elevations and by May 1, the snowpack was near record proportions at some low elevation snow courses. Snowmelt was three to four weeks later than usual and coincided with heavy precipitation over most of the Missouri River drainage except for the Southwest portion. This resulted in considerable damage to property, agricultural lands, and irrigation diversion structures.

Irrigation reservoir storage is above average reflecting the abundant water supply and reduced demands from stored water.

YELLOWSTONE RIVER DRAINAGE

Snowpack began on drier than normal soils in most areas. The snow accumulation remained below average early in the season and then increased to near average by March 1. Lack of melt, additional snowfall and cool, wet spring resulted in an above average snowpack by May 1. Snow persisted in the high elevations with little melt until June. Peak snowmelt was three to four weeks later than normal. Some tributaries experienced damaging flows as result of heavy rainfall during major snowmelt period.

SOIL MOISTURE

JULY 1, 1975

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	6/28	6.6	5.0	5.3
Murphy Lake R.S.	3000	48	22.6	7/01	19.1	19.4	20.0
Raven	3050	48	23.0	6/28	14.5	14.0	17.6

Flathead

Desert Mountain	5600	54	8.4	7/01	8.4	8.2	8.5
Marias Pass	5250	54	6.5	-	-	-	-

Clark Fork

Black Pine	7100	48	10.0	7/01	8.8	8.9	8.9
Lubrecht Forest	4100	48	26.8	-	-	-	-
Seeley Lake R.S.	4030	48	11.9	-	-	-	-
Skalkaho Summit	7260	48	10.8	7/01	9.7	10.0	10.1

Bitterroot

Gibbons Pass	7100	48	7.1	7/01	7.0	5.8	6.4
Lolo Pass	5250	48	10.6	6/30	9.8	10.0	9.5

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	6/30	14.8	9.1	13.6
----------	------	----	------	------	------	-----	------

Madison

West Yellowstone	6700	48	6.5	7/02	2.9	2.6	2.9
------------------	------	----	-----	------	-----	-----	-----

Gallatin

Bridger Bowl	7250	48	17.0	6/30	14.1	15.0	16.0
College Site No. 2	4856	54	17.7	6/27	13.9	11.1	13.2
Lick Creek	6860	48	18.8	6/30	14.6	16.2	17.6
Twenty-One Mile	7150	48	10.0	7/02	9.2	8.3	8.7

Missouri Main Stem

Kings Hill	7420	48	11.8	6/30	11.2	11.6	10.7
Stemple Pass	6350	48	5.9	6/30	5.2	4.3	5.0

Milk

Beaver Creek	3950	48	20.9	6/26	17.5	11.8	12.0
Rocky Boy	4700	36	10.1	6/26	9.7	8.8	8.9

Yellowstone

Battle Ridge	6020	48	17.6	6/30	15.6	12.1	14.7
Northeast Entrance	7350	48	9.4	6/27	9.5	7.1	8.8
PMC Dryland	3700	48	20.7	6/30	8.2	7.3	-

SOIL MOISTURE

AUGUST 1, 1975

DRAINAGE BASIN and or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	7/31	3.4	2.7	3.6
Murphy Lake R.S.	3000	48	22.6	8/01	19.4	18.9	18.9
Raven	3050	48	23.0	7/31	13.8	13.5	16.1

Flathead

Desert Mountain	5600	54	8.4	7/28	6.0	6.4	6.4
Marias Pass	5250	54	6.5	7/27	4.6	4.0	4.1

Clark Fork

Black Pine	7100	48	10.0	7/31	9.1	8.1	8.5
Lubrecht Forest	4100	48	26.8	-	-	-	-
Seeley Lake R.S.	4030	48	11.9	8/04	8.9	6.6	6.8
Skalkaho Summit	7260	48	10.8	7/31	10.5	10.4	10.4

Bitterroot

Gibbons Pass	7100	48	7.1	8/04	6.2	3.8	4.8
Lolo Pass	5250	48	10.6	7/30	7.3	6.2	5.8

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	7/31	16.8	14.5	10.3
----------	------	----	------	------	------	------	------

Madison

West Yellowstone	6700	48	6.5	7/31	2.6	1.4	2.1
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Gallatin

Bridger Bowl	7250	48	17.0	7/29	14.9	14.9	15.5
College Site No. 2	4856	54	17.7	8/01	11.4	8.4	10.1
Lick Creek	6860	48	18.8	7/29	15.0	13.3	14.8
Twenty-One Mile	7150	48	10.0	7/31	7.1	4.4	5.6

Missouri Main Stem

Kings Hill	7420	48	11.8	8/01	9.7	9.2	9.2
Stemple Pass	6350	48	5.9	8/04	4.8	3.5	4.0

Milk

Beaver Creek	3950	48	20.9	7/30	8.8	7.6	8.2
Rocky Boy	4700	36	10.1	7/30	7.5	6.8	7.4

Yellowstone

Battle Ridge	6020	48	17.6	7/29	11.2	10.6	11.0
Northeast Entrance	7350	48	9.4	-	-	-	-
PMC Dryland	3700	48	20.7	7/29	5.8	4.9	-

SOIL MOISTURE

SEPTEMBER 1, 1975

DRAINAGE BASIN and or STATION Name	Profile (Inches)			Date of Survey	Soil Moisture (Inches)		
	Elevation	Depth	Capacity		This Year	Last Year	Average ft

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	9/03	4.8	2.4	4.0
Murphy Lake R.S.	3000	48	22.6	9/02	19.9	18.7	18.8
Raven	3050	48	23.0	9/03	13.6	13.5	15.3

Flathead

Desert Mountain	5600	54	8.4	9/02	8.3	4.9	5.2
Marias Pass	5250	54	6.5	-	-	-	-

Clark Fork

Black Pine	7100	48	10.0	8/28	8.9	8.3	8.0
Lubrecht Forest	4100	48	26.8	-	-	-	-
Seeley Lake R.S.	4030	48	11.9	9/04	10.1	4.2	4.1
Skalkaho Summit	7260	48	10.8	8/28	10.6	10.3	9.8

Bitterroot

Gibbons Pass	7100	48	7.1	9/02	6.3	4.3	3.8
Lolo Pass	5250	48	10.6	8/29	7.8	4.4	4.1

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	8/31	15.9	8.7	8.8
----------	------	----	------	------	------	-----	-----

Madison

West Yellowstone	6700	48	6.5	8/31	1.7	1.5	1.8
------------------	------	----	-----	------	-----	-----	-----

Gallatin

Bridger Bowl	7250	48	17.0	9/02	14.9	15.0	15.9
College Site No. 2	4856	54	17.7	8/29	8.3	17.1	9.7
Lick Creek	6860	48	18.8	9/03	12.7	12.2	14.8
Twenty-One Mile	7150	48	10.0	8/30	5.6	2.8	3.9

Missouri Main Stem

Kings Hill	7420	48	11.8	8/29	9.7	9.4	7.8
Stemple Pass	6350	48	5.9	9/30	4.8	3.8	3.8

Milk

Beaver Creek	3950	48	20.9	8/28	9.1	11.1	7.4
Rocky Boy	4700	36	10.1	8/28	9.6	9.5	6.9

Yellowstone

Battle Ridge	6020	48	17.6	9/02	10.9	8.9	9.2
Northeast Entrance	7350	48	9.4	-	-	-	-
PMC Dryland	3700	48	20.7	9/01	4.8	5.3	5.5

SOIL MOISTURE

OCTOBER 1, 1975

DRAINAGE BASIN and or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	10/03	2.8	2.6	4.1
Murphy Lake R.S.	3000	48	22.6	10/02	19.1	18.6	18.6
Raven	3050	48	23.0	10/02	16.6	13.7	16.4

Flathead

Desert Mountain	5600	54	8.4	10/01	6.2	4.9	5.8
Maria Pass	5250	54	6.5	9/23	4.7	3.2	3.9

Clark Fork

Black Pine	7100	48	10.0	10/01	8.2	7.8	8.0
Lubrecht Forest	4100	48	26.8	10/02	14.6	13.4	13.4
Seeley Lake R.S.	4030	48	11.9	10/02	8.4	4.0	4.6
Skalkaho Summit	7260	48	10.8	10/01	10.4	9.5	10.2

Bitterroot

Gibbons Pass	7100	48	7.1	9/29	5.5	3.1	4.3
Lolo Pass	5250	48	10.6	9/26	6.4	3.2	4.4

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	10/01	11.7	6.4	8.3
----------	------	----	------	-------	------	-----	-----

Madison

West Yellowstone	6700	48	6.5	10/06	1.4	1.3	2.4
------------------	------	----	-----	-------	-----	-----	-----

Gallatin

Bridger Bowl	7250	48	17.0	10/01	14.8	15.0	15.6
College Site No. 2	4856	54	17.7	10/03	6.9	12.5	10.0
Lick Creek	6860	48	18.8	9/30	12.1	12.0	15.2
Twenty-One Mile	7150	48	10.0	10/06	3.1	2.2	4.5

Missouri Main Stem

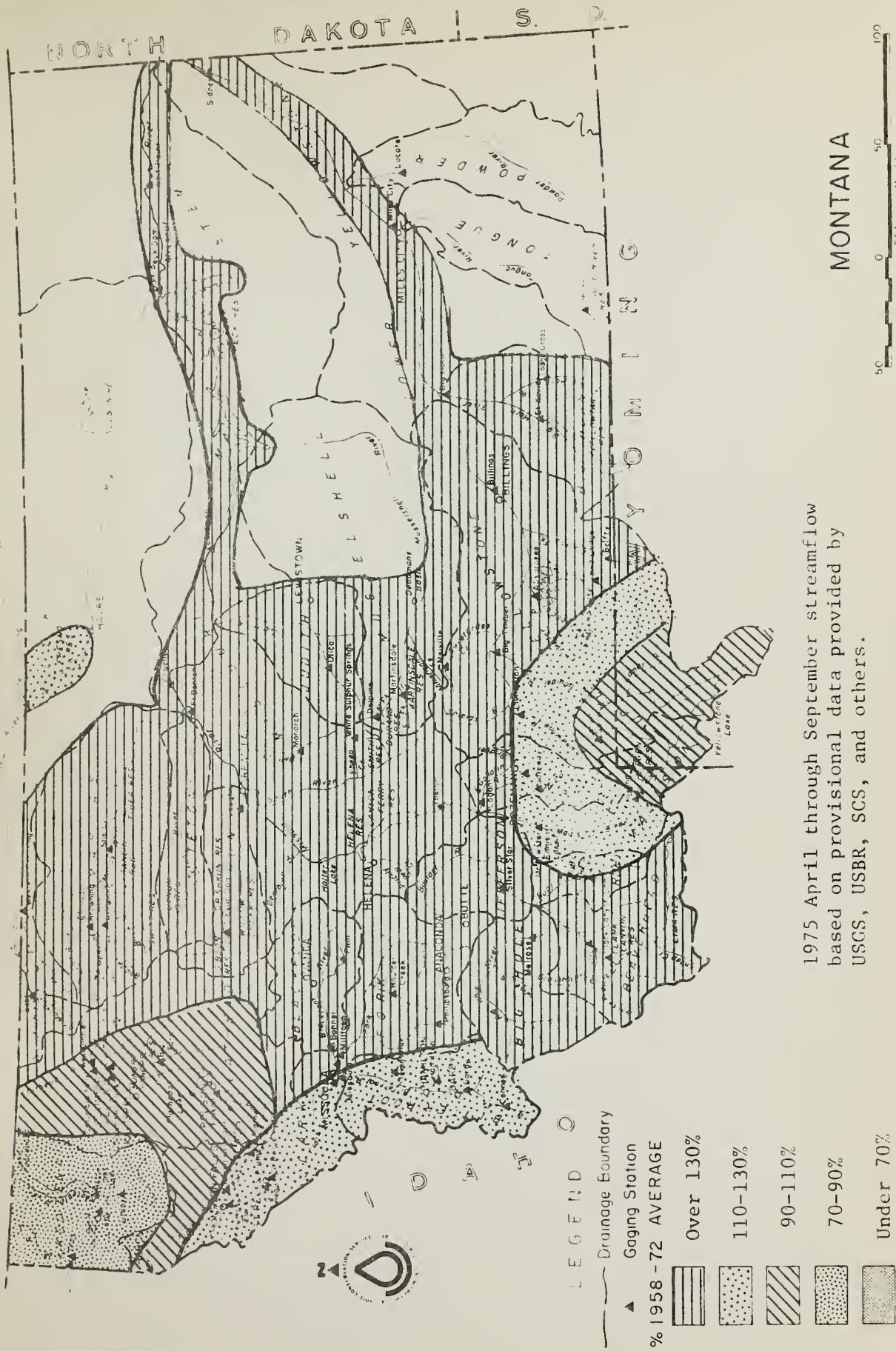
Kings Hill	7420	48	11.8	9/30	9.0	9.2	7.7
Stemple Pass	6350	48	5.9	9/29	4.1	3.2	3.8

Milk

Beaver Creek	3950	48	20.9	9/29	8.5	8.8	7.2
Rocky Boy	4700	36	10.1	9/29	9.2	8.8	7.4

Yellowstone

Battle Ridge	6020	48	17.6	10/01	11.4	7.9	9.9
Northeast Entrance	7350	48	9.4	10/02	4.1	3.6	6.4
PMC Dryland	3700	48	20.7	9/29	4.6	5.3	5.6



1975 SNOW COVER COMPARISONS - PERCENT AVERAGE

<u>DRAINAGE</u>	<u>JAN. 1</u>	<u>FEB. 1</u>	<u>MAR. 1</u>	<u>APR. 1</u>	<u>MAY 1</u>
Kootenai	-	91	108	114	121
Flathead	75	86	103	107	116
Upper Clark Fork	76	104	106	112	143
Lower Clark Fork	79	94	108	114	123
Bitterroot	88	108	116	116	133
Jefferson	76	92	107	116	142
Madison	67	79	99	109	135
Gallatin	88	102	101	106	119
Sun-Marias-Teton	69	80	88	95	112
Missouri Main Stem	81	102	101	109	137
Milk	-	84	99	117	155
Yellowstone	72	84	100	106	119
Little Bighorn	-	132	111	120	136

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Avg. 1958-72

COLUMBIA RIVER BASIN

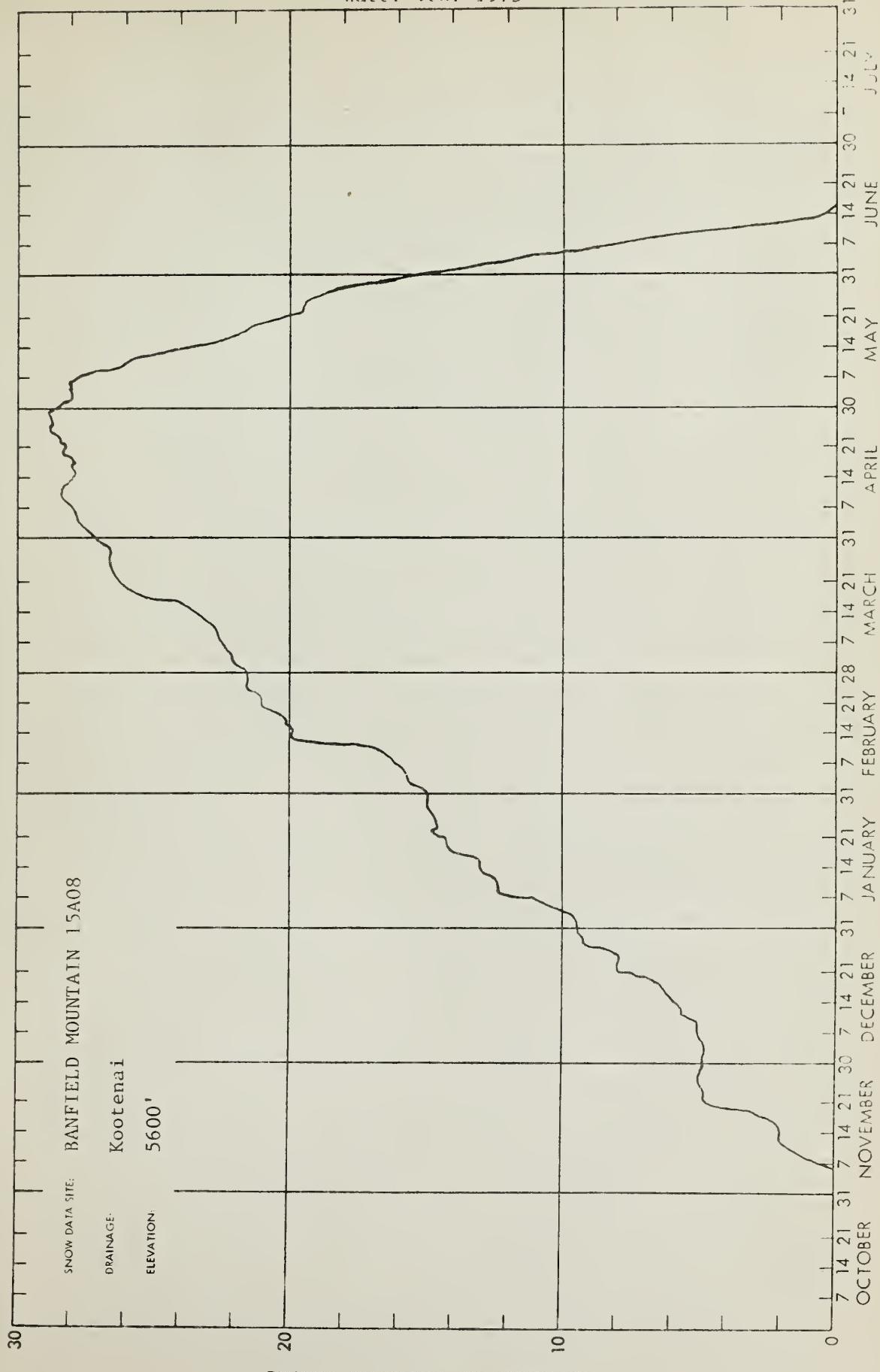
Kootenai	Koocanusa	5,694.0	5,420.0	5,420.0	-
Flathead	Hungry Horse	3,428.0	3,345.0	3,215.0	3,293.0
	Flathead Lake	1,791.0	1,718.0	1,762.0	1,738.0
	Camas (4)	45.2	15.0	16.9	21.4
	Mission Valley (8)	100.3	41.7	29.8	22.7
Clark Fork	Georgetown Lake	31.0	30.9	25.8	28.4
	Lower Willow Creek	4.6	3.2	.3	1.2
	Nevada Creek	12.6		-	4.8
	Noxon Rapids	334.6	328.3	316.5	323.7
Bitterroot	Como	34.9		-	1.7
	Painted Rocks	31.7	29.6	14.3	26.5

MISSOURI RIVER BASIN

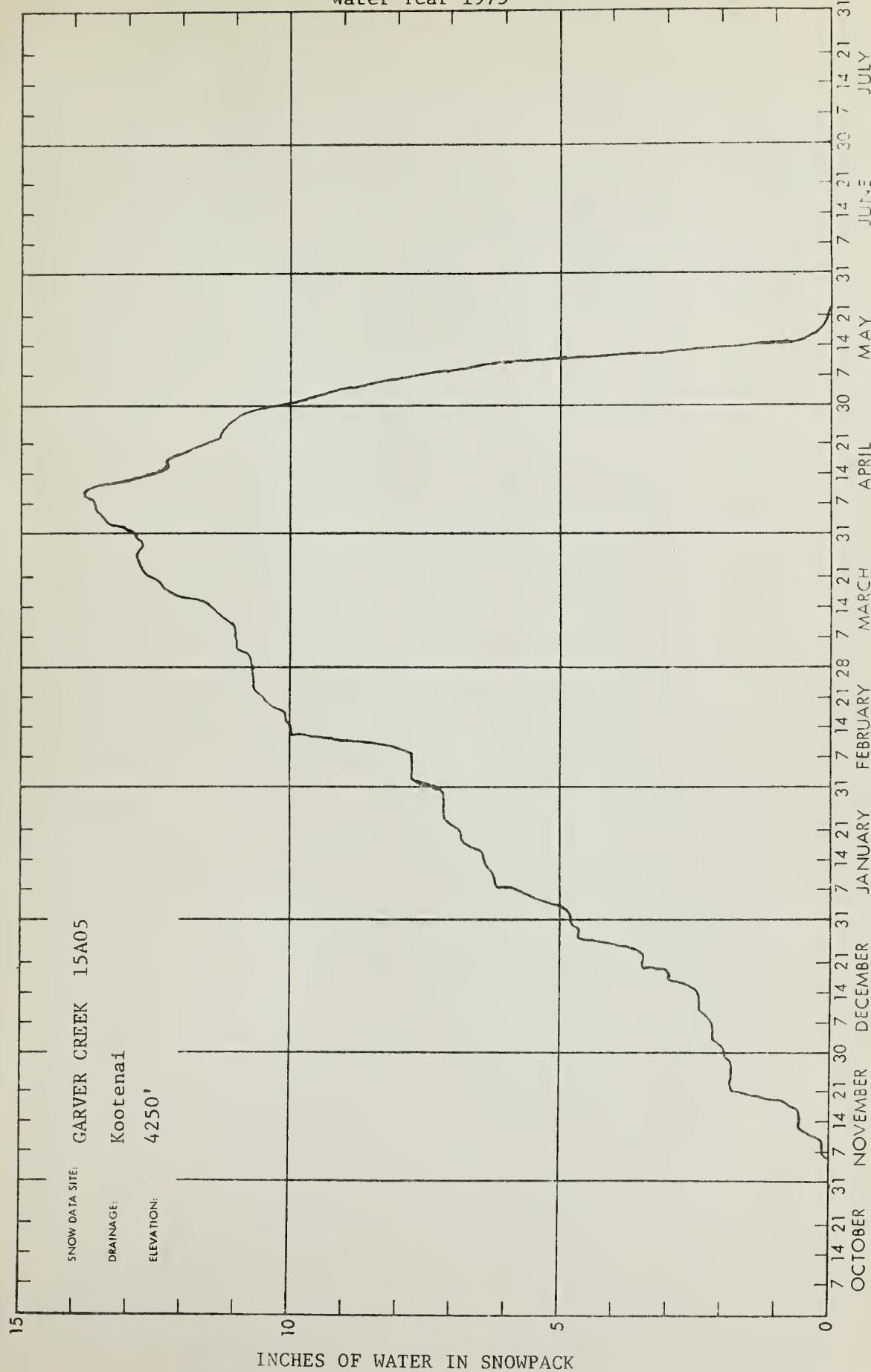
Beaverhead	Clark Canyon	328.9	170.6	62.0	125.6
	Lima	84.0	37.8	28.4	27.1
Ruby	Ruby	38.8		14.8	10.8
Madison	Hebgen Lake	377.5	362.9	341.2	315.9
	Ennis Lake	41.0	37.6	38.2	36.4
Gallatin	Middle Creek	8.0	3.4	4.7	2.9
Missouri	Canyon Ferry	2,043.0	1,908.0	1,667.0	1,742.0
	Hauser & Helena	61.9	59.6	46.1	58.7
	Lake Helena	10.4	9.6	10.2	10.3
	Holter Lake	81.9	80.2	78.9	75.4
	Smith River	10.6		8.6	4.8
	Bair	7.0		5.4	3.0
	Martinsdale	23.1		14.3	7.8
	Deadman's Basin	72.2		37.3	32.5
	Fort Peck Lake	19,140.0	18,220.0	17,160.0	14,550.0
Sun	Gibson	104.8	61.6	45.1	31.0
	Willow Creek	32.2	24.3	24.2	17.7
	Pishkun	32.0	17.2	17.9	16.4
Marias	Lower Two Medicine	11.9	11.7	8.6	3.5
	Four Horns	19.2	13.3	14.1	11.0
	Swift	30.0	21.6	10.6	13.9
	Lake Frances	111.9	95.4	22.3	78.9
Milk	Tiber	1,347.0	616.2	531.7	642.3
	Beaver Creek	3.5	1.5	2.7	-
	Fresno	127.2	123.5	104.6	66.2
	Nelson	66.8	57.2	57.6	43.4
Yellowstone	Lake Sherburne	66.2	50.5	7.9	6.4
	Mystic Lake	21.0	19.6	15.7	20.1
	Tongue River	68.0		30.9	24.1
	Cooney	27.4	8.5	17.0	12.2
Bighorn	Bighorn Lake	1,356.0	1,018.0	1,056.0	977.9



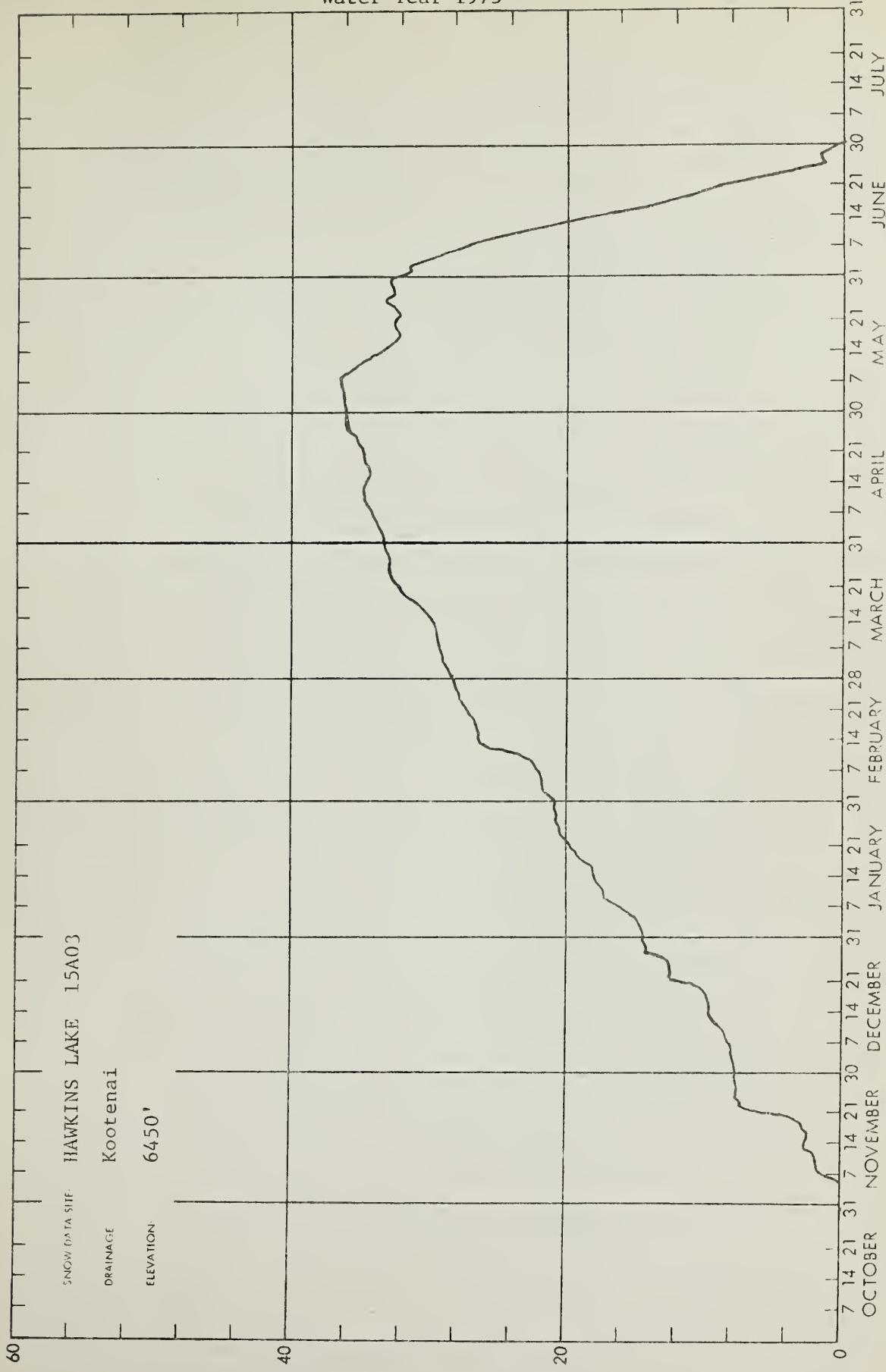
SNOW PILLOW DATA
Water Year 1975



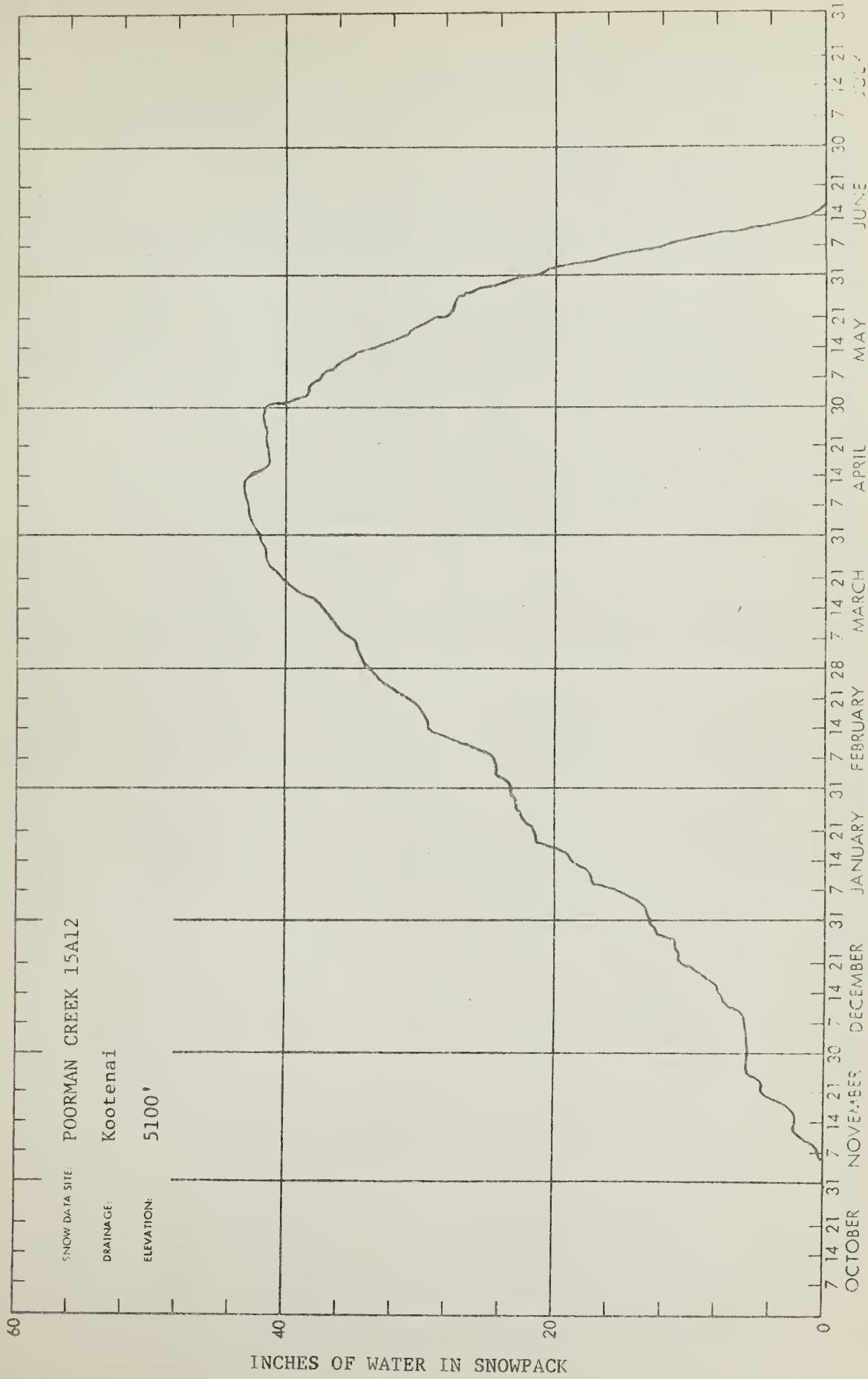
SNOW PILLOW DATA
Water Year 1975



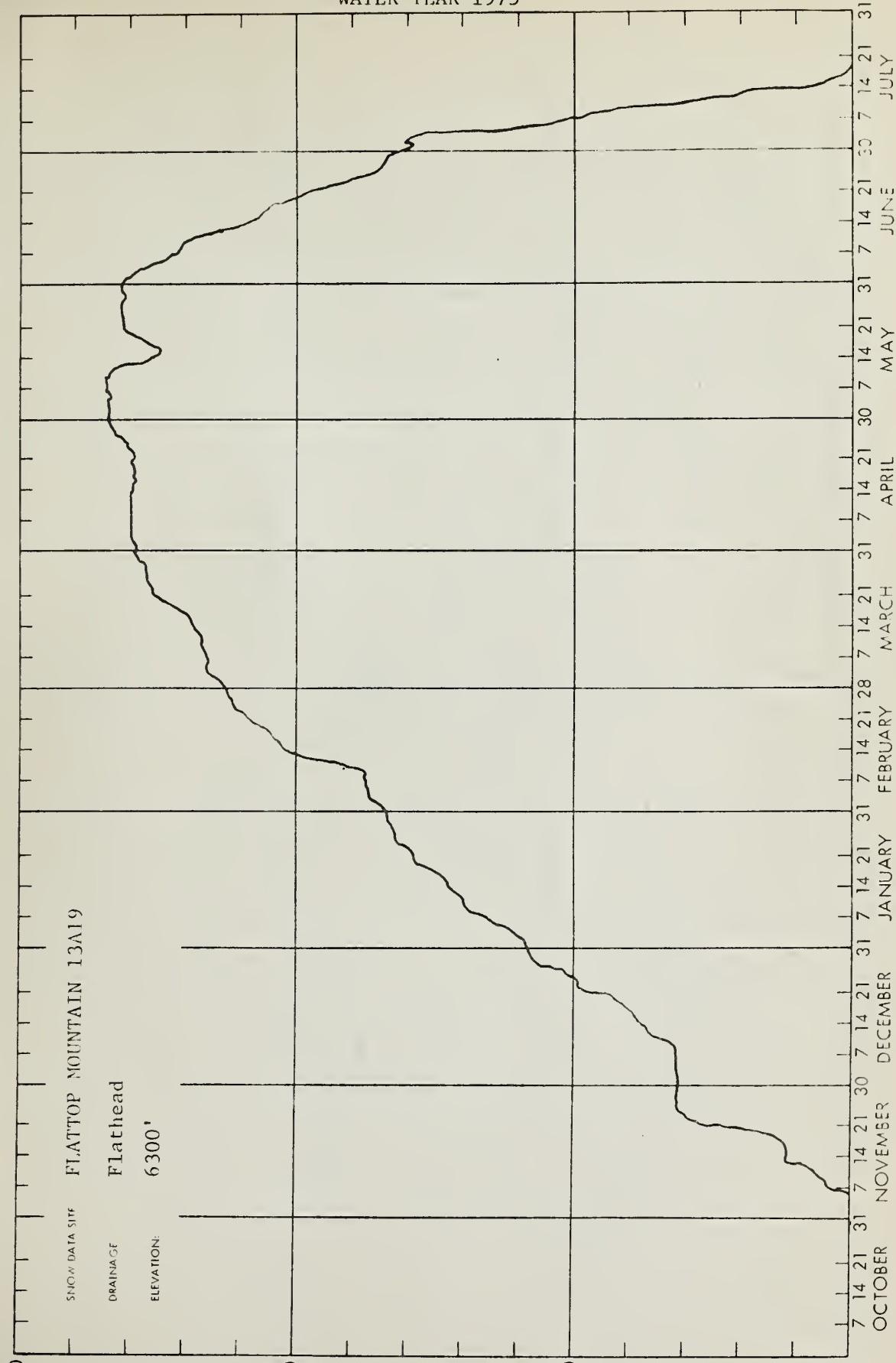
SNOW PILLOW DATA
Water Year 1975



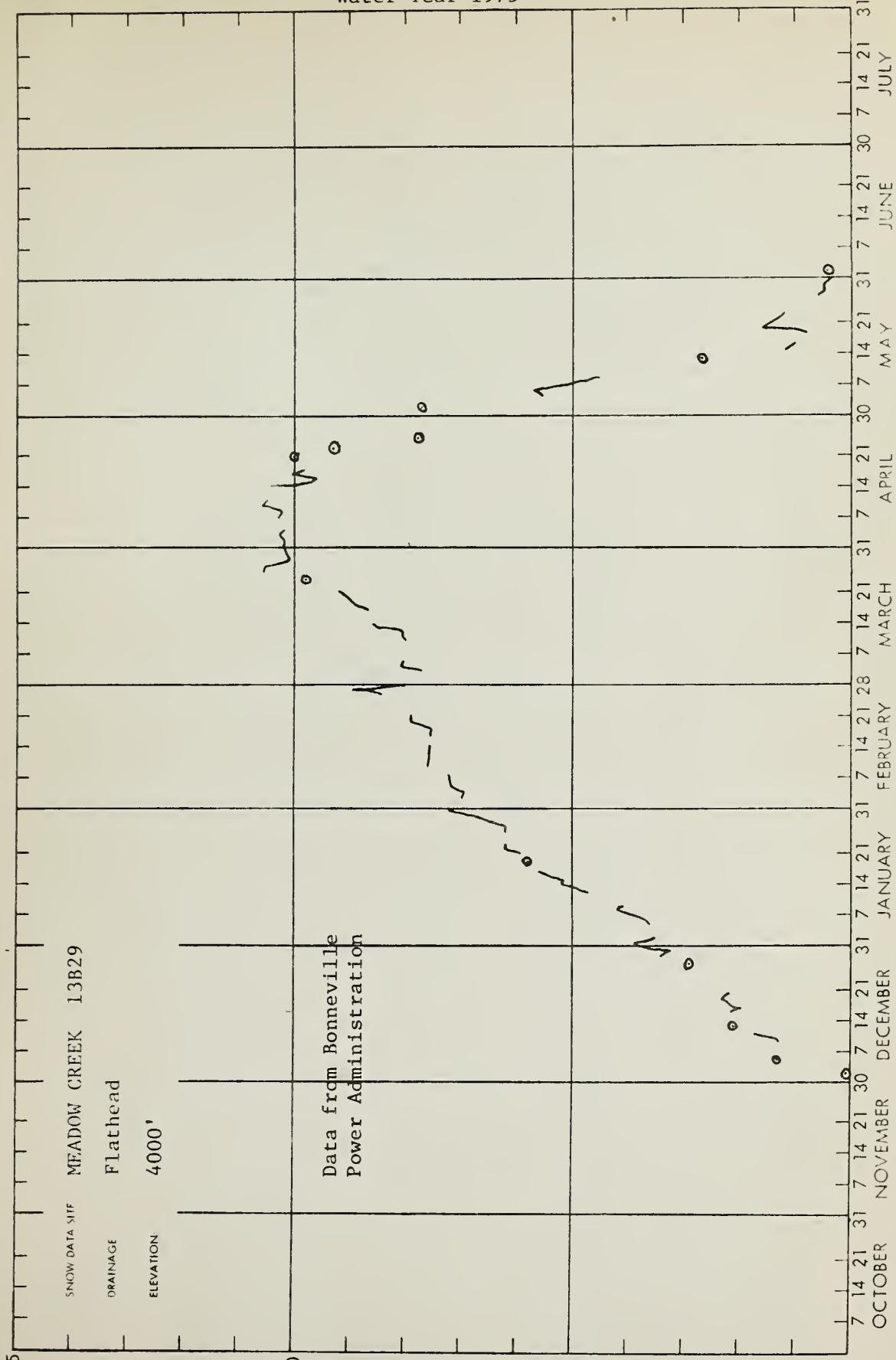
SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
WATER YEAR 1975

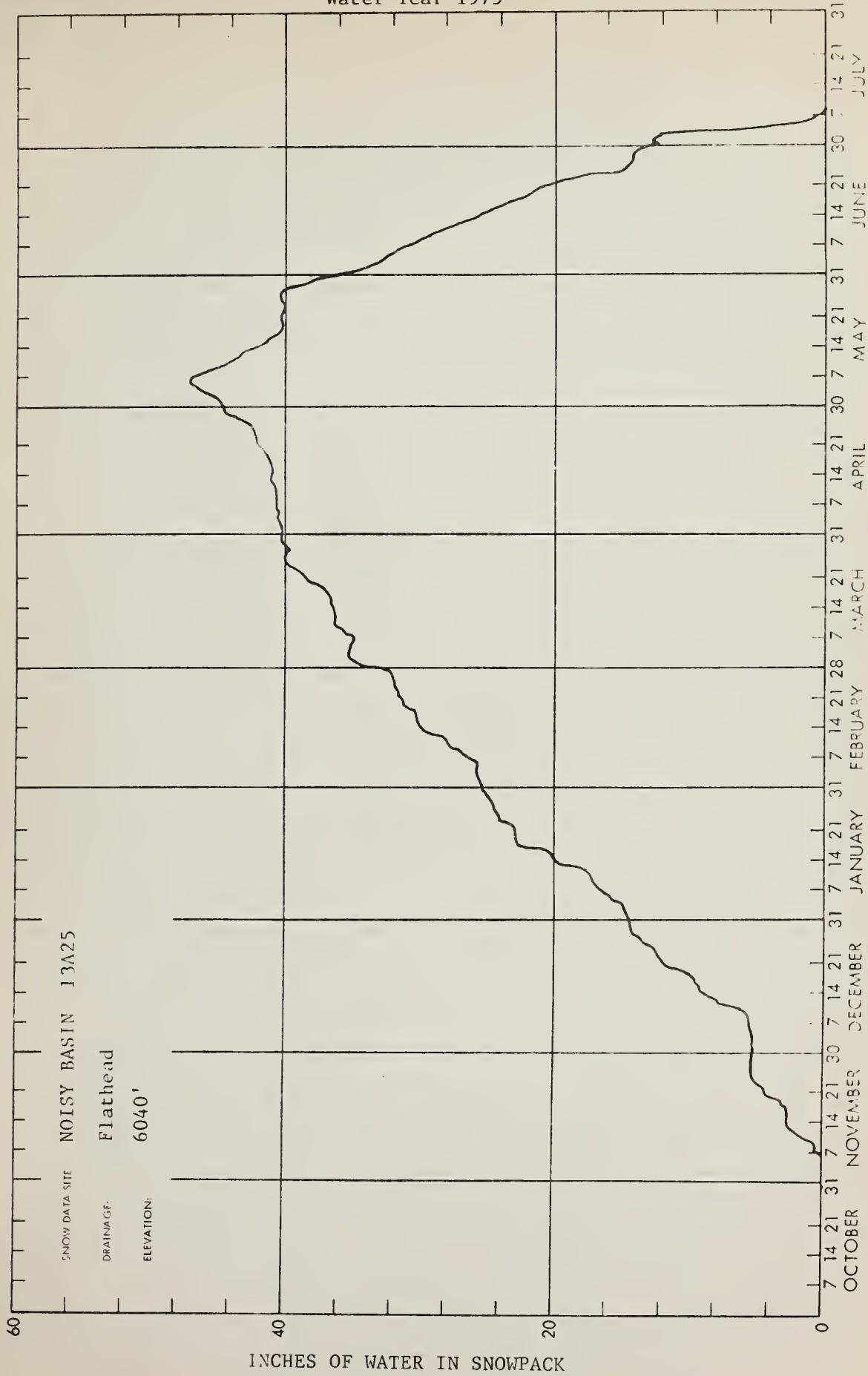


SNOW PILLOW DATA
Water Year 1975

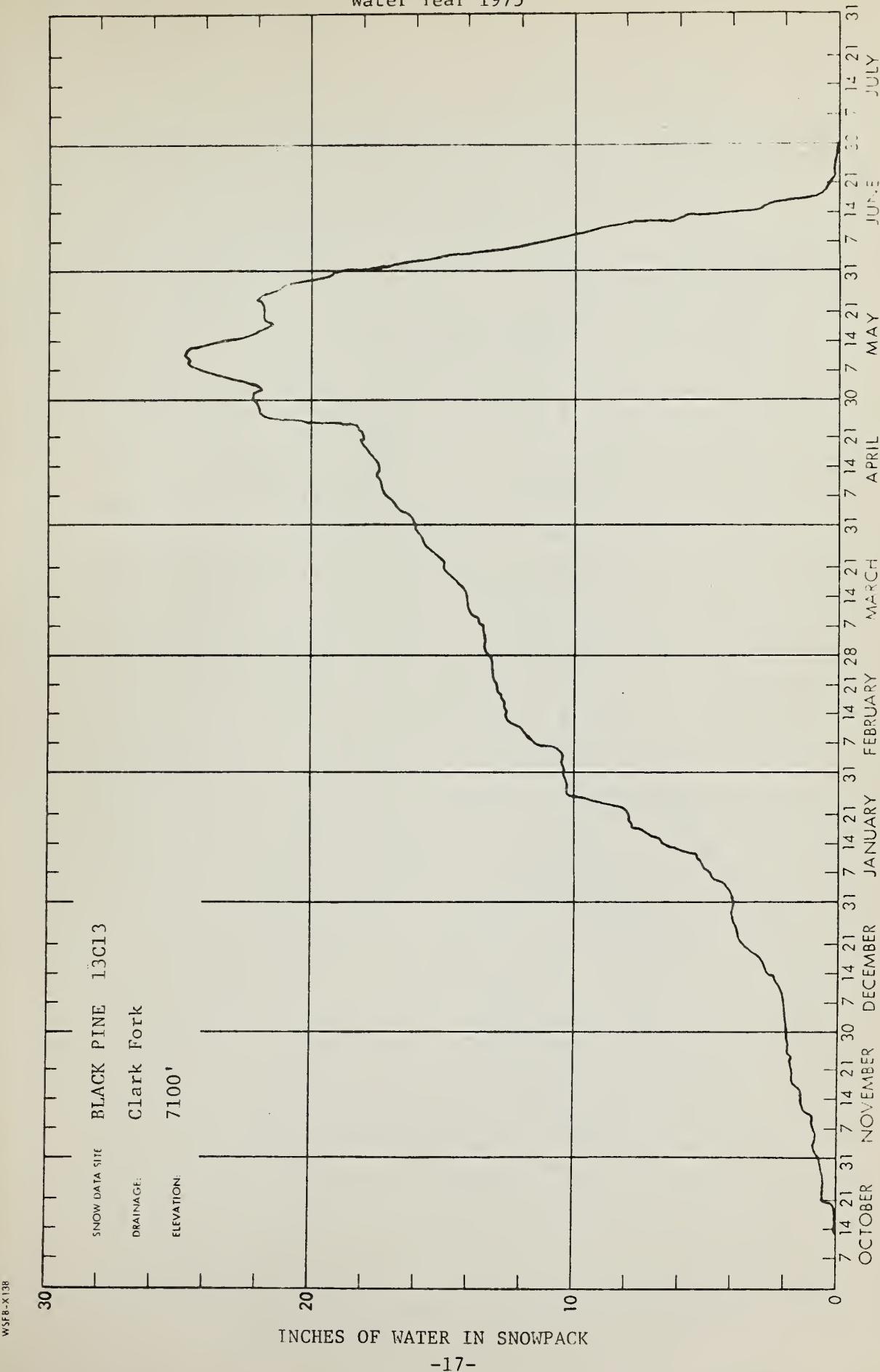


INCHES OF WATER IN SNOWPACK

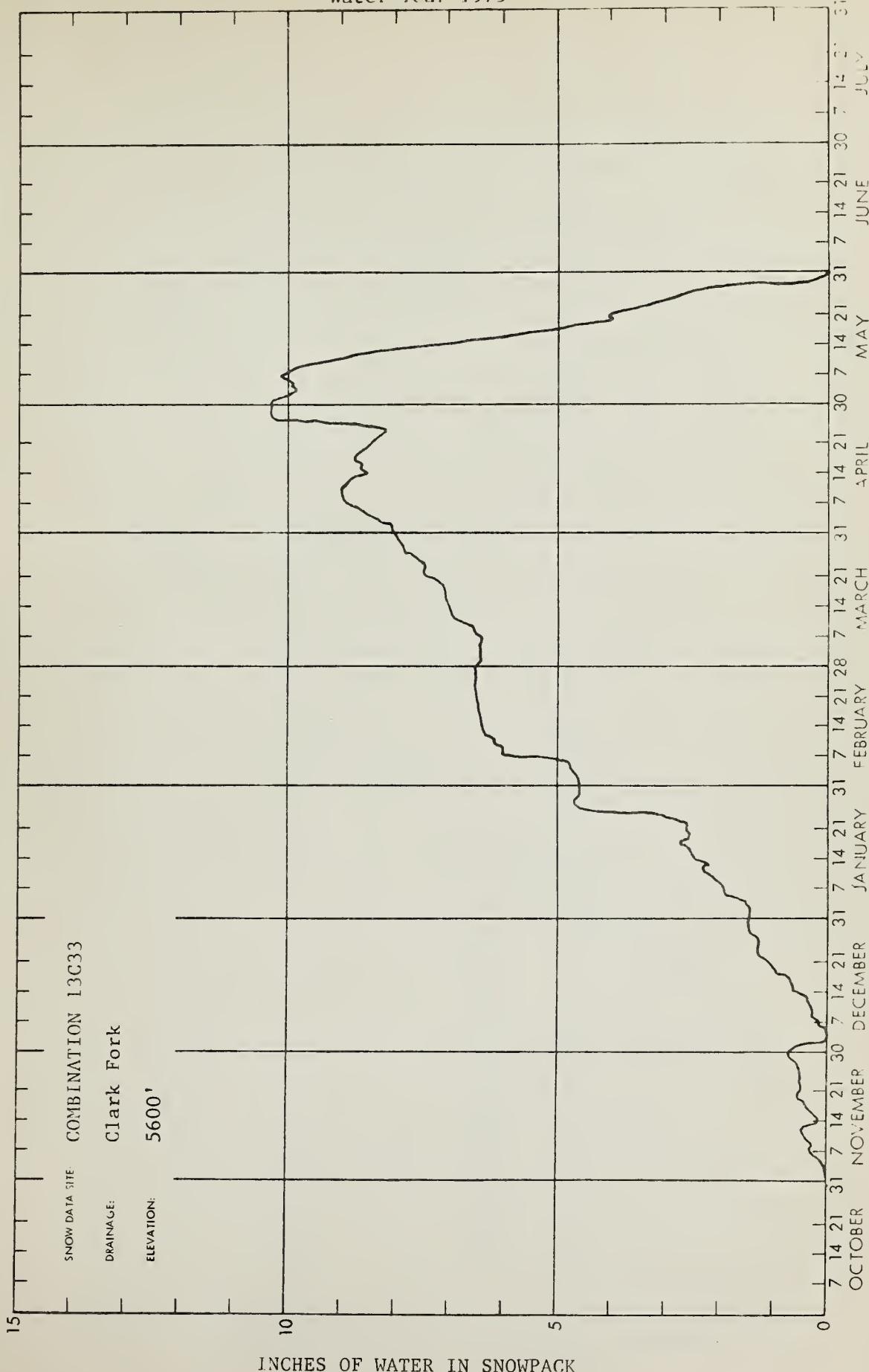
SNOW PILLOW DATA
Water Year 1975



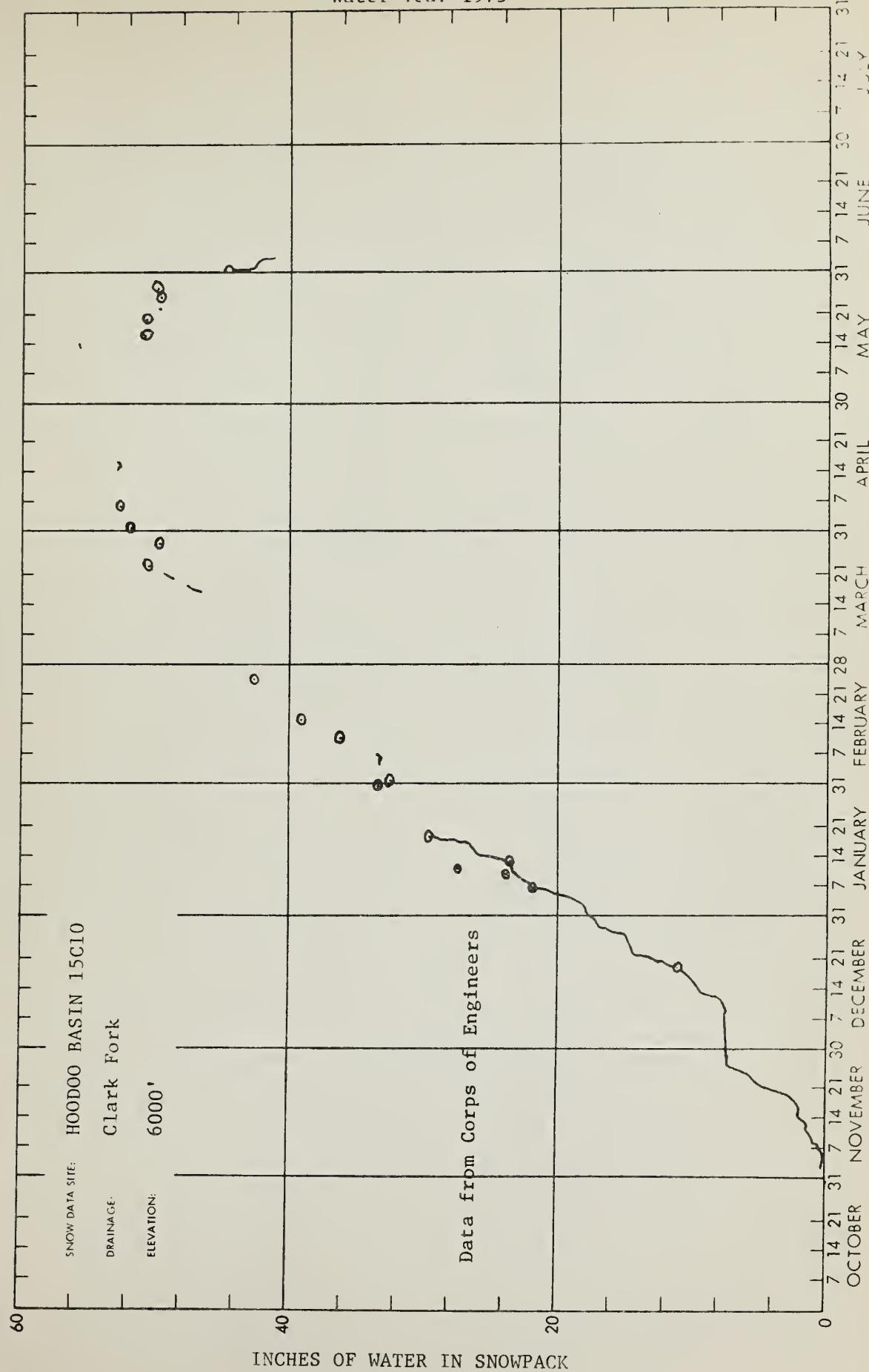
SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
Water Year 1975

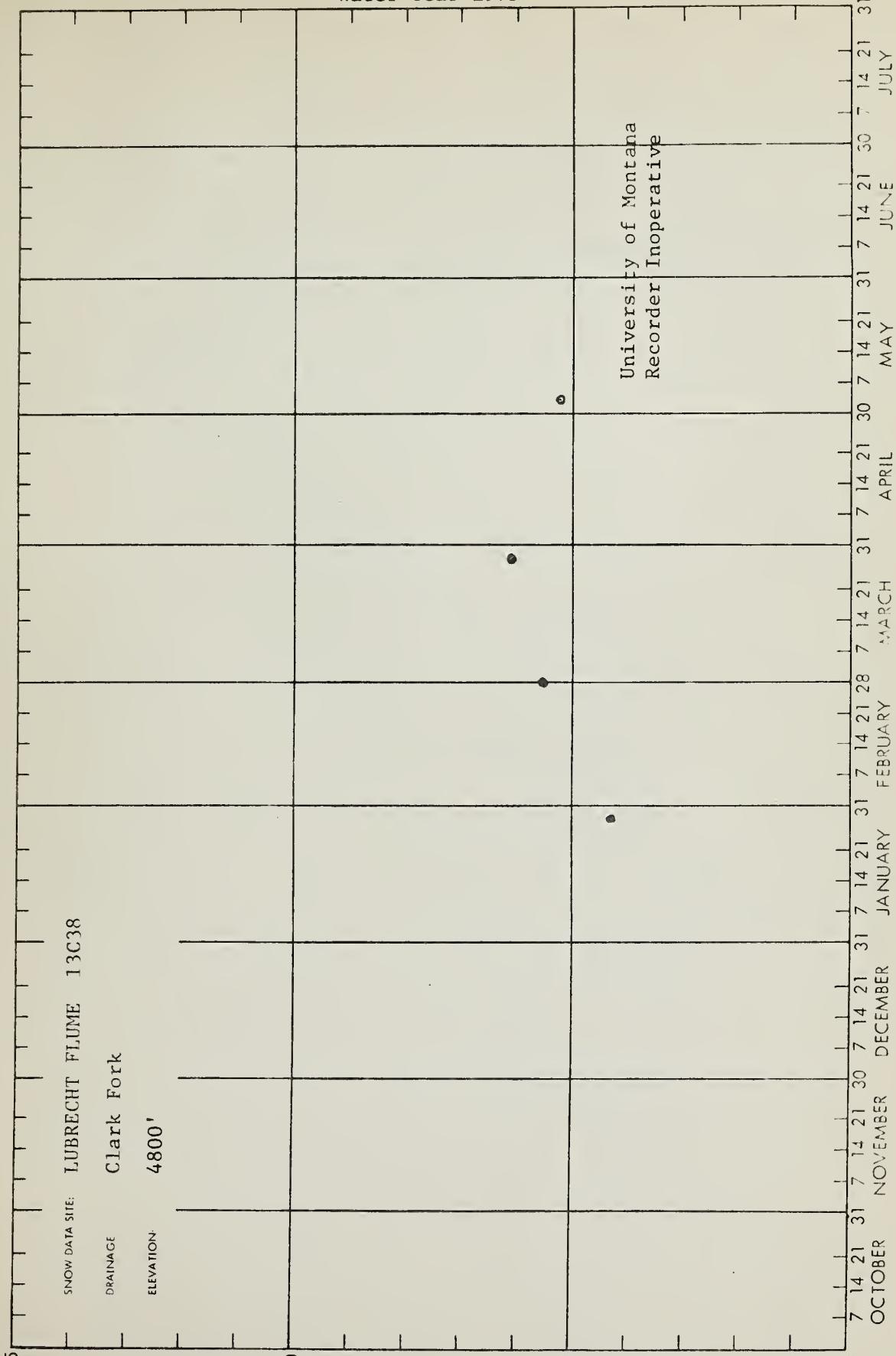


SNOW PILLOW DATA
Water Year 1975

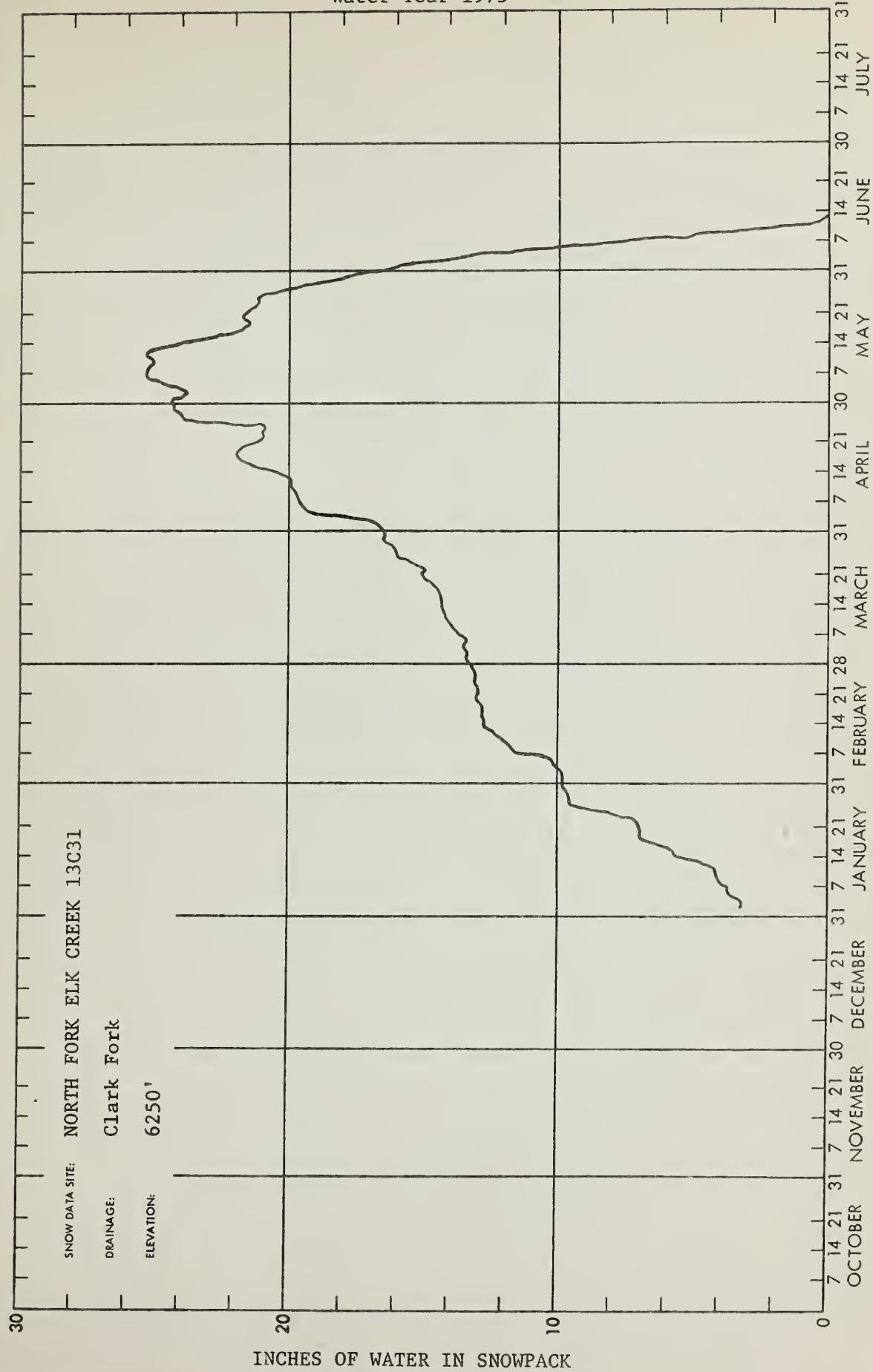


SNOW PILLOW DATA
Water Year 1975

SNOW DATA SITE: LUBRECHT FLUME 13C38
DRAINAGE Clark Fork
ELEVATION 4800'

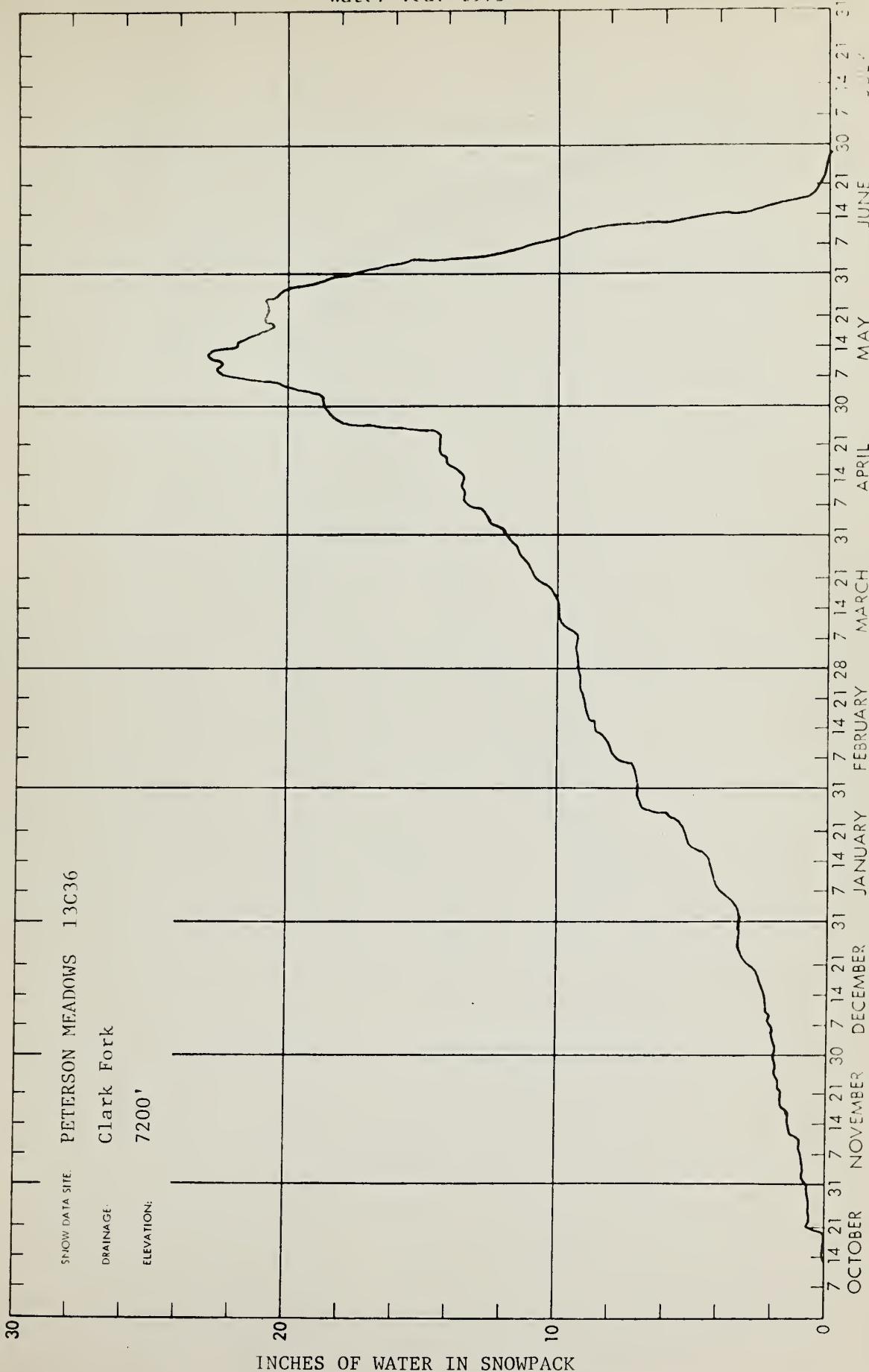


SNOW PILLOW DATA
Water Year 1975

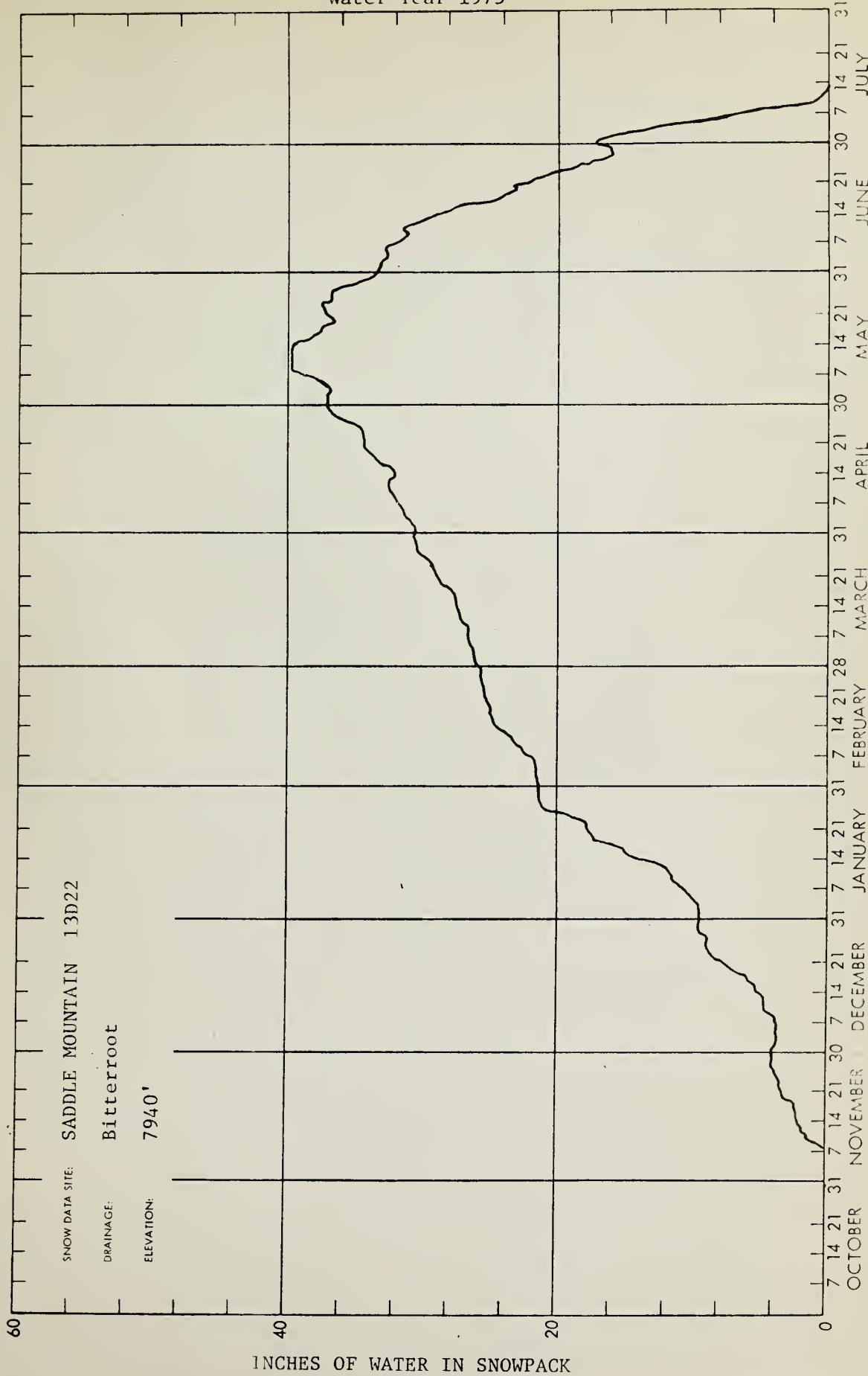


SNOW PILLOW DATA
Water Year 1975

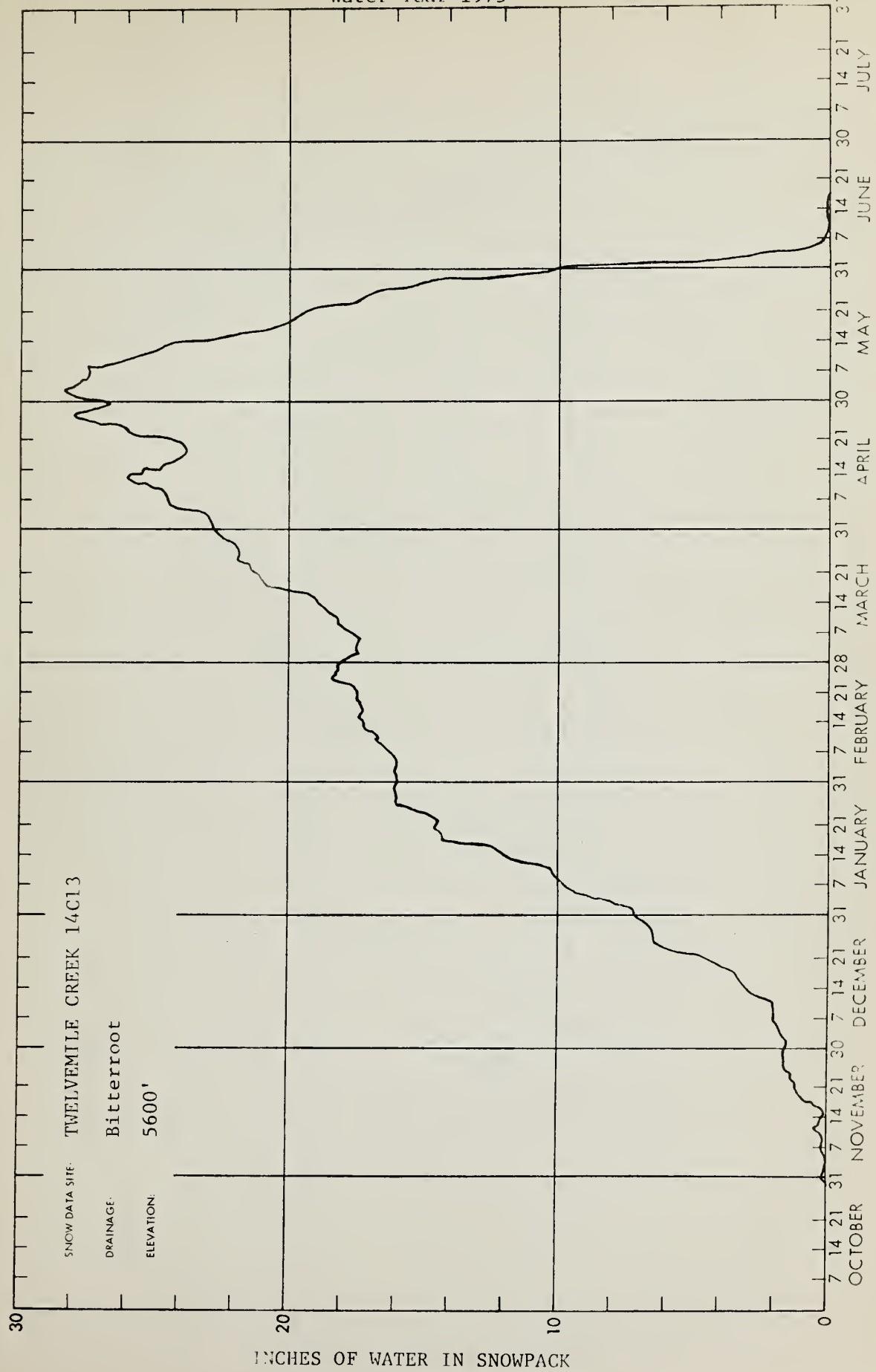
SNOW DATA SITE: PETERSON MEADOWS 13C36
DRAINAGE: Clark Fork
ELEVATION: 7200'



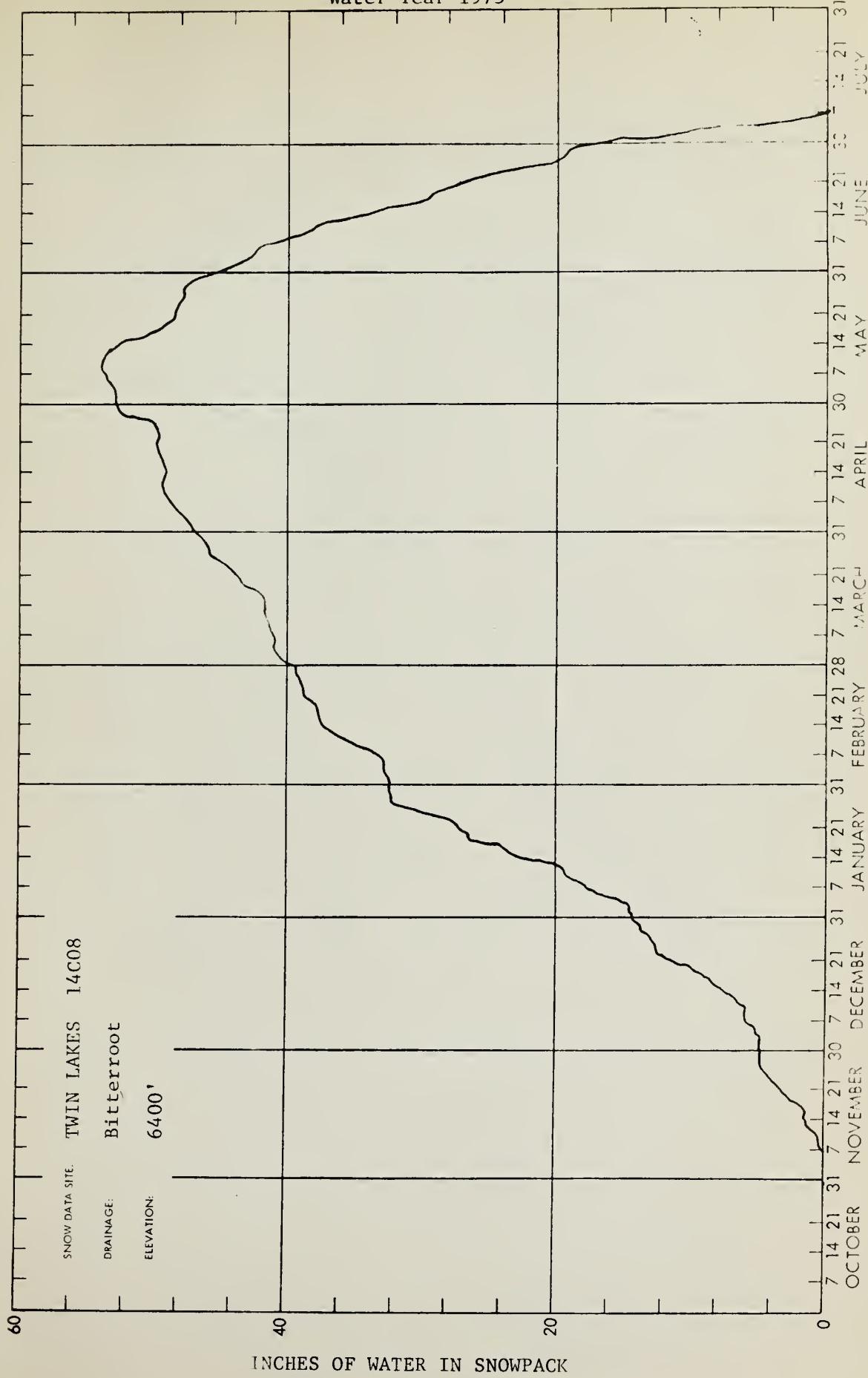
SNOW PILLOW DATA
Water Year 1975



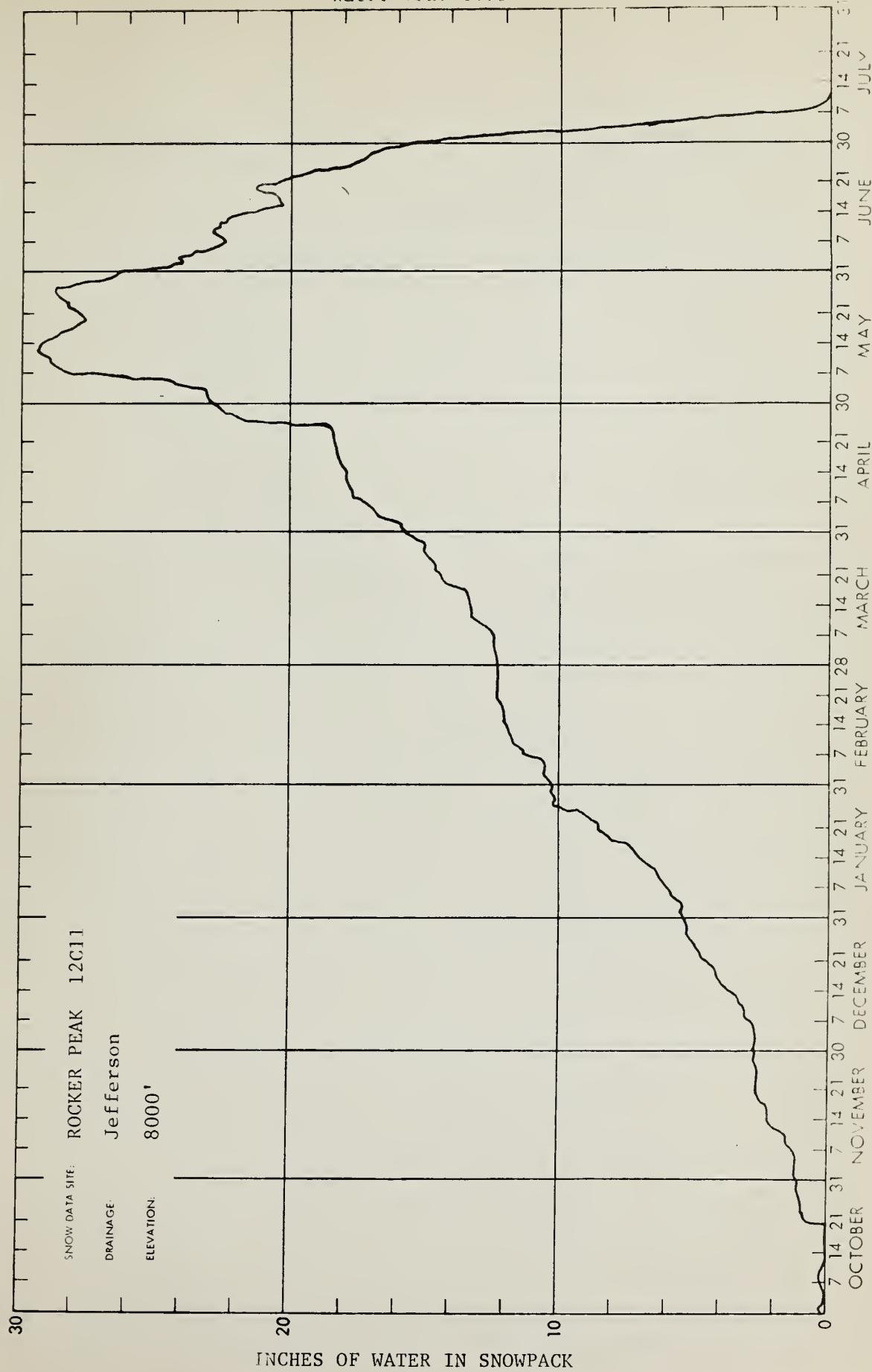
SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
Water Year 1975

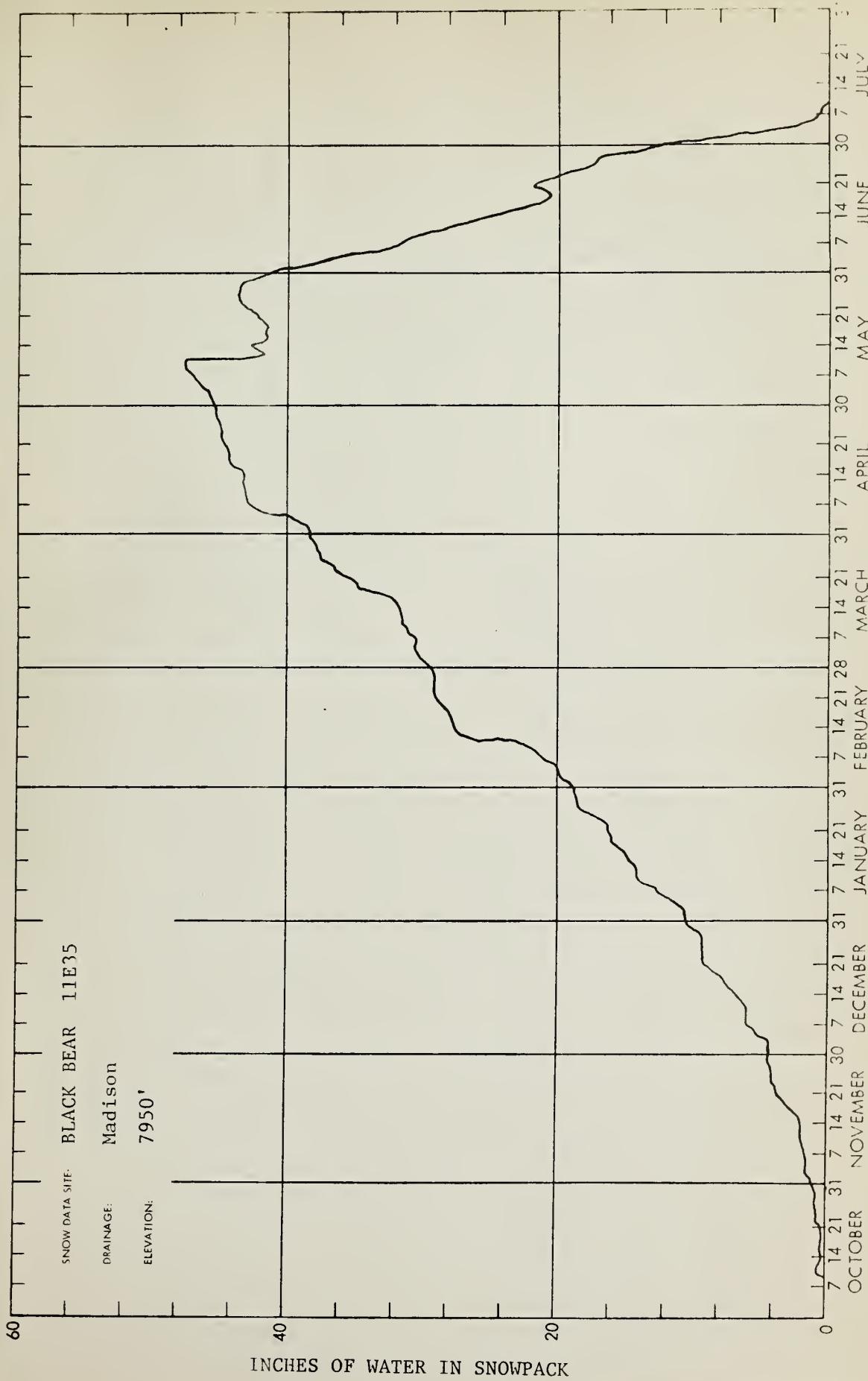


SNOW PILLOW DATA
Water Year 1975

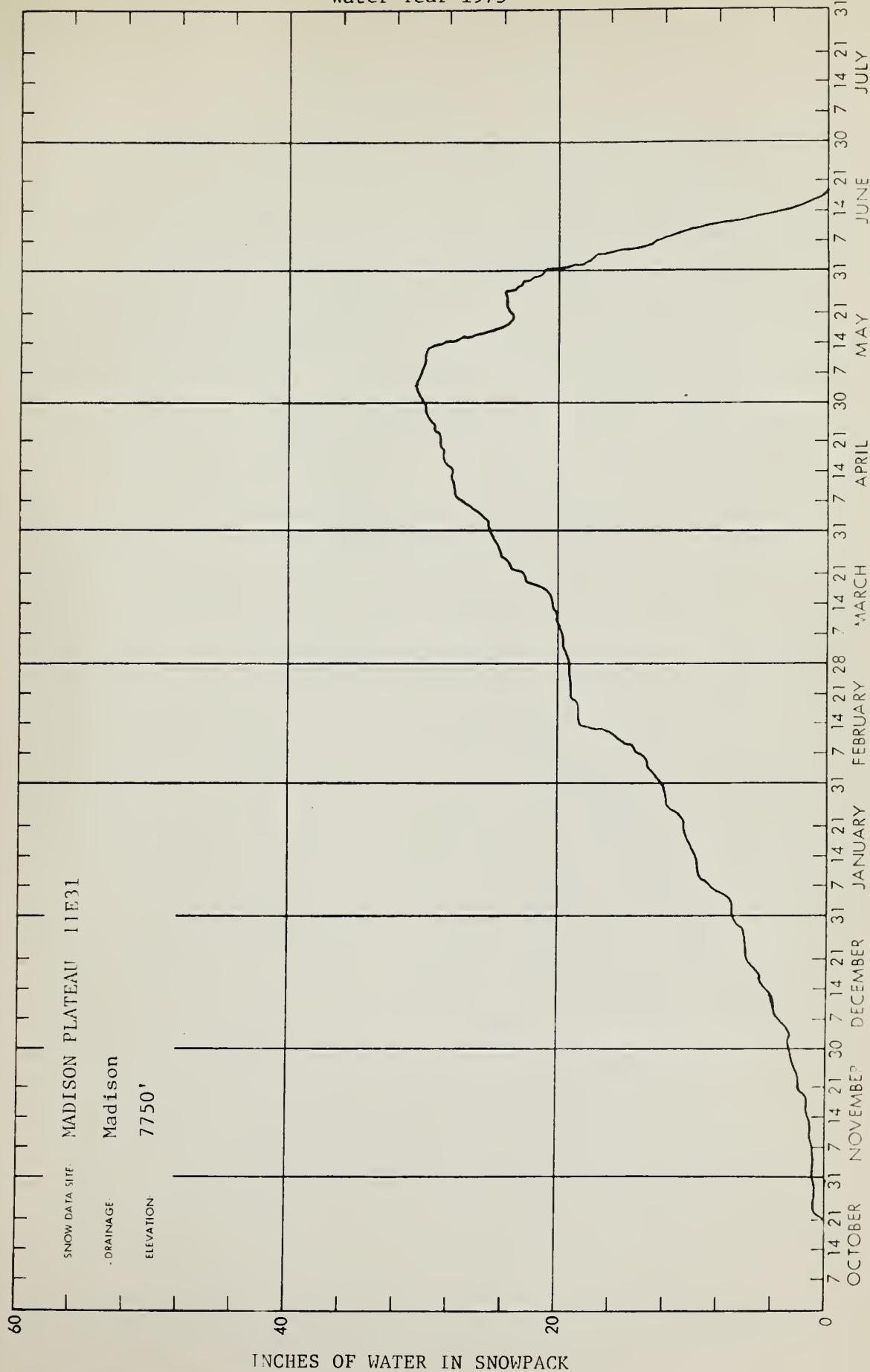


**SNOW PILLOW DATA
Water Year 1975**

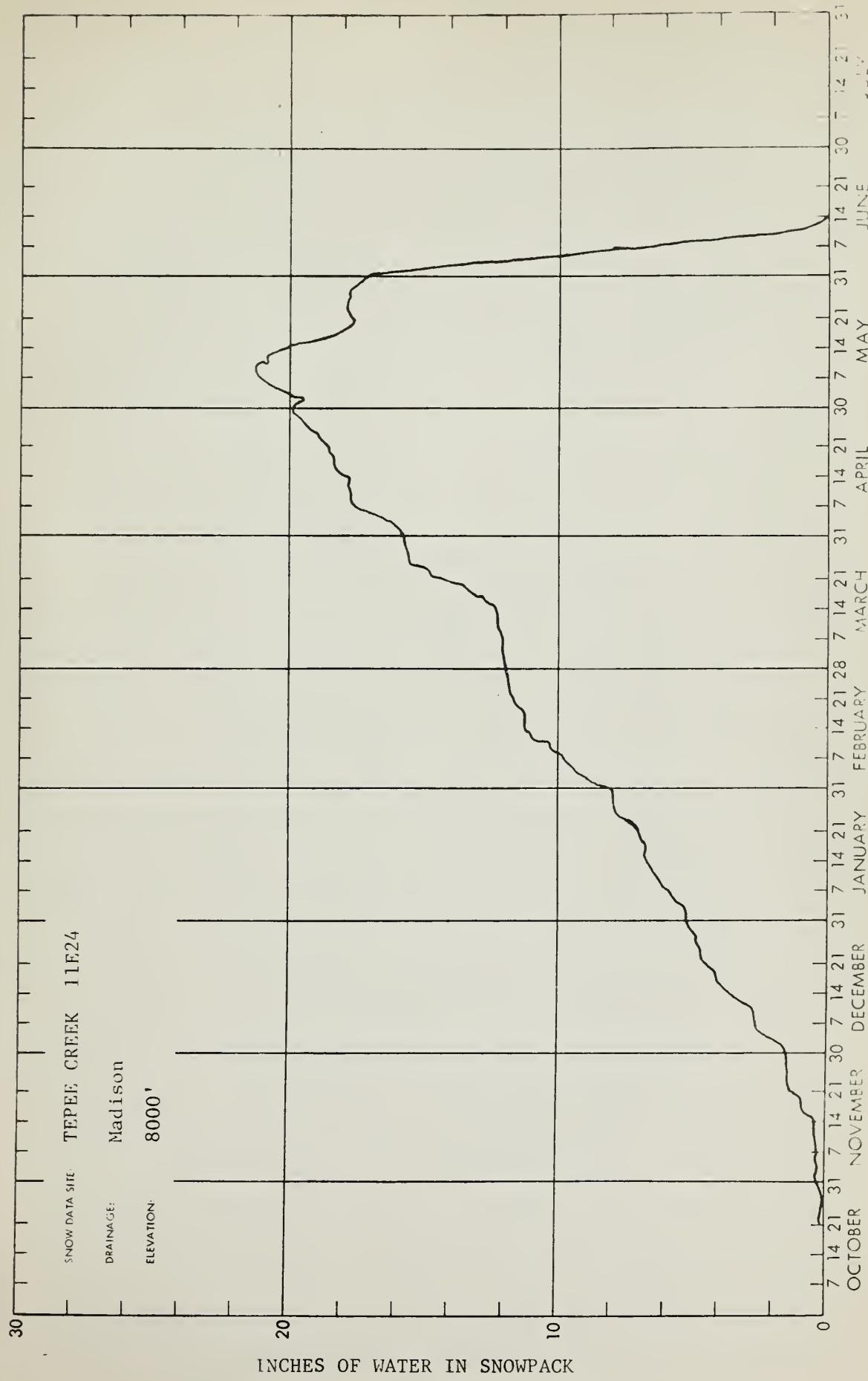
SNOW DATA SITE: BLACK BEAR 11E35
 DRAINAGE: Madison
 ELEVATION: 7950'



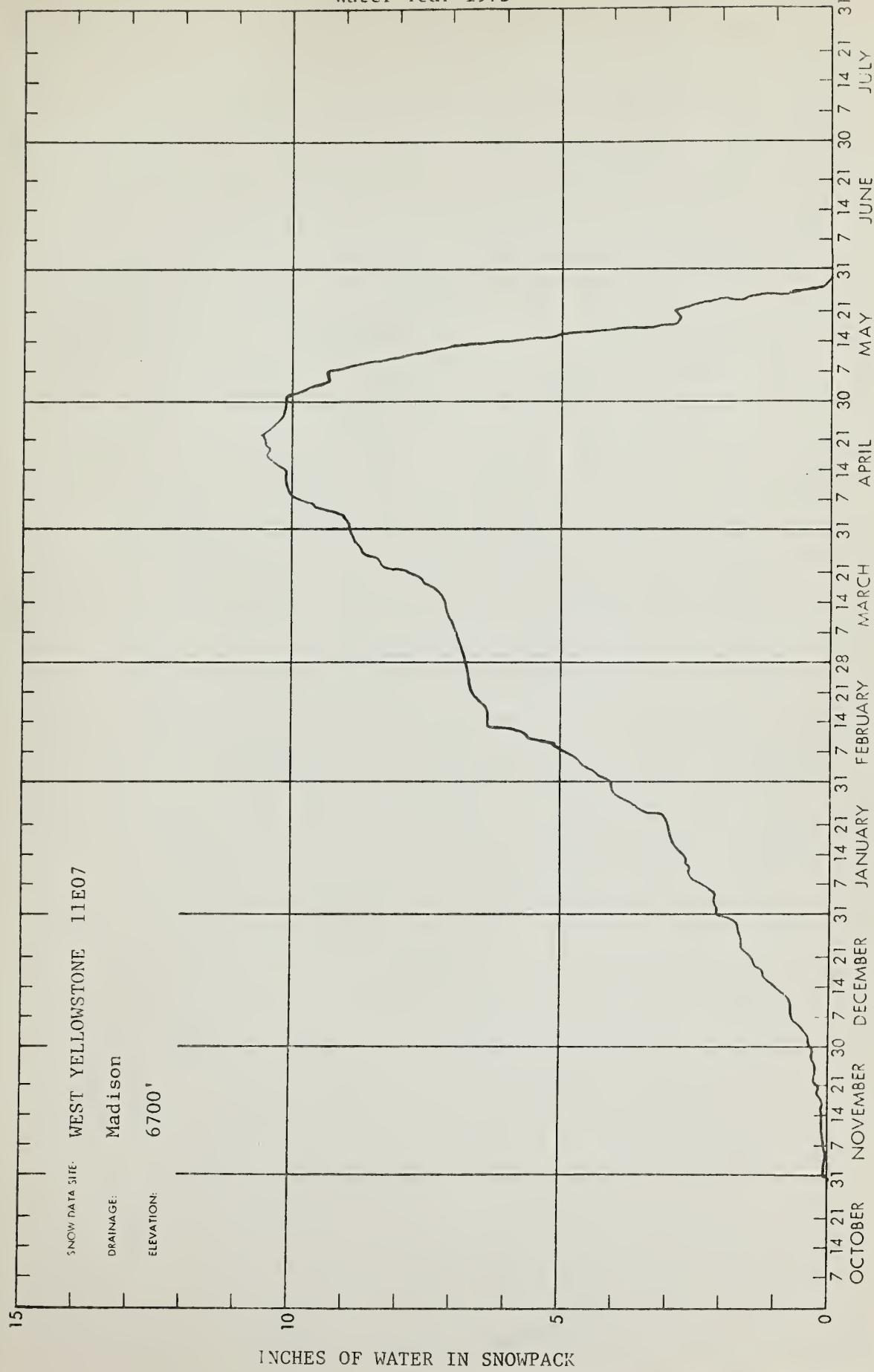
SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
Water Year 1975



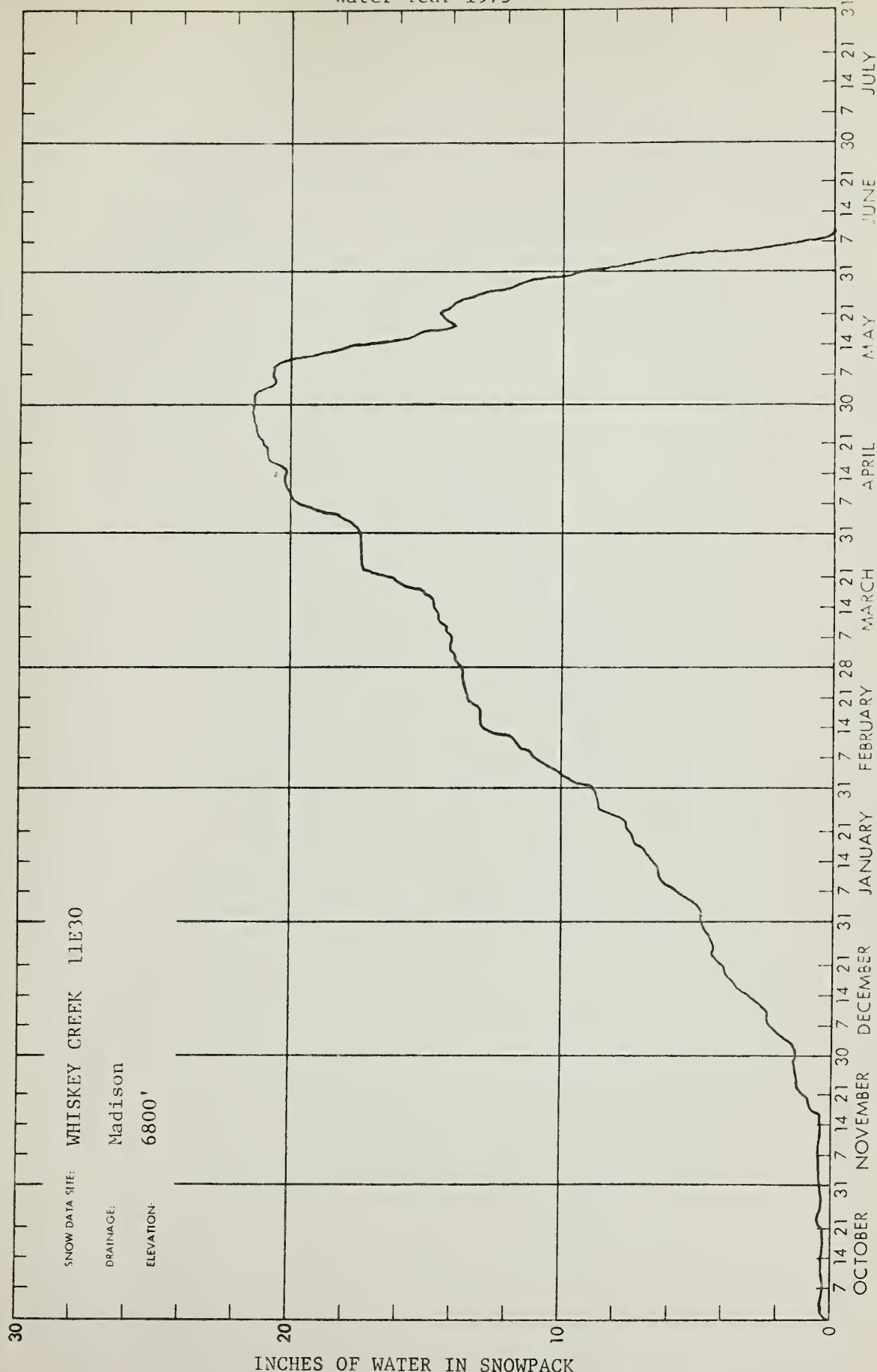
SNOW PILLOW DATA
Water Year 1975



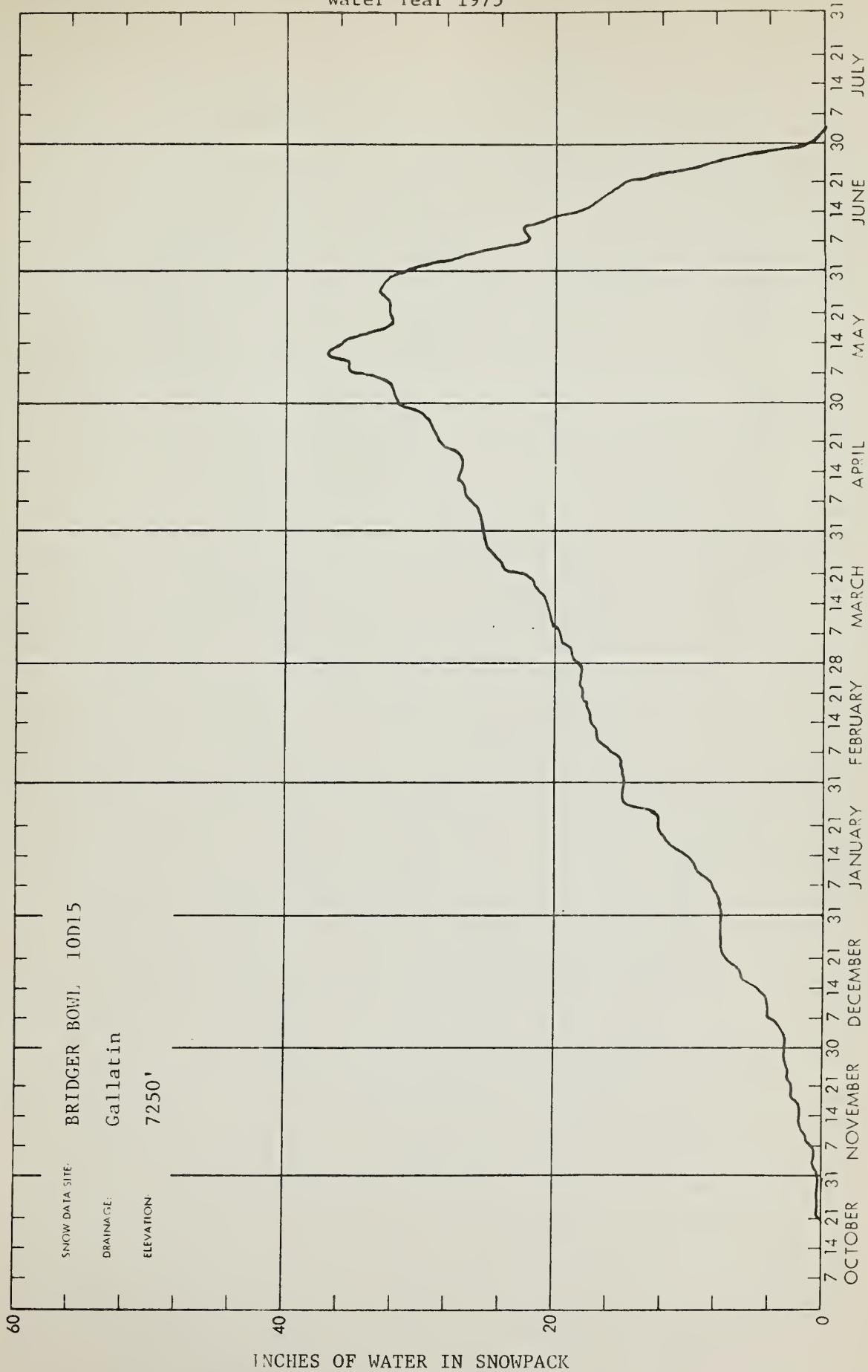
SNOW PILLOW DATA
Water Year 1975

SNOW DATA SITE: WHISKEY CREEK 11E30

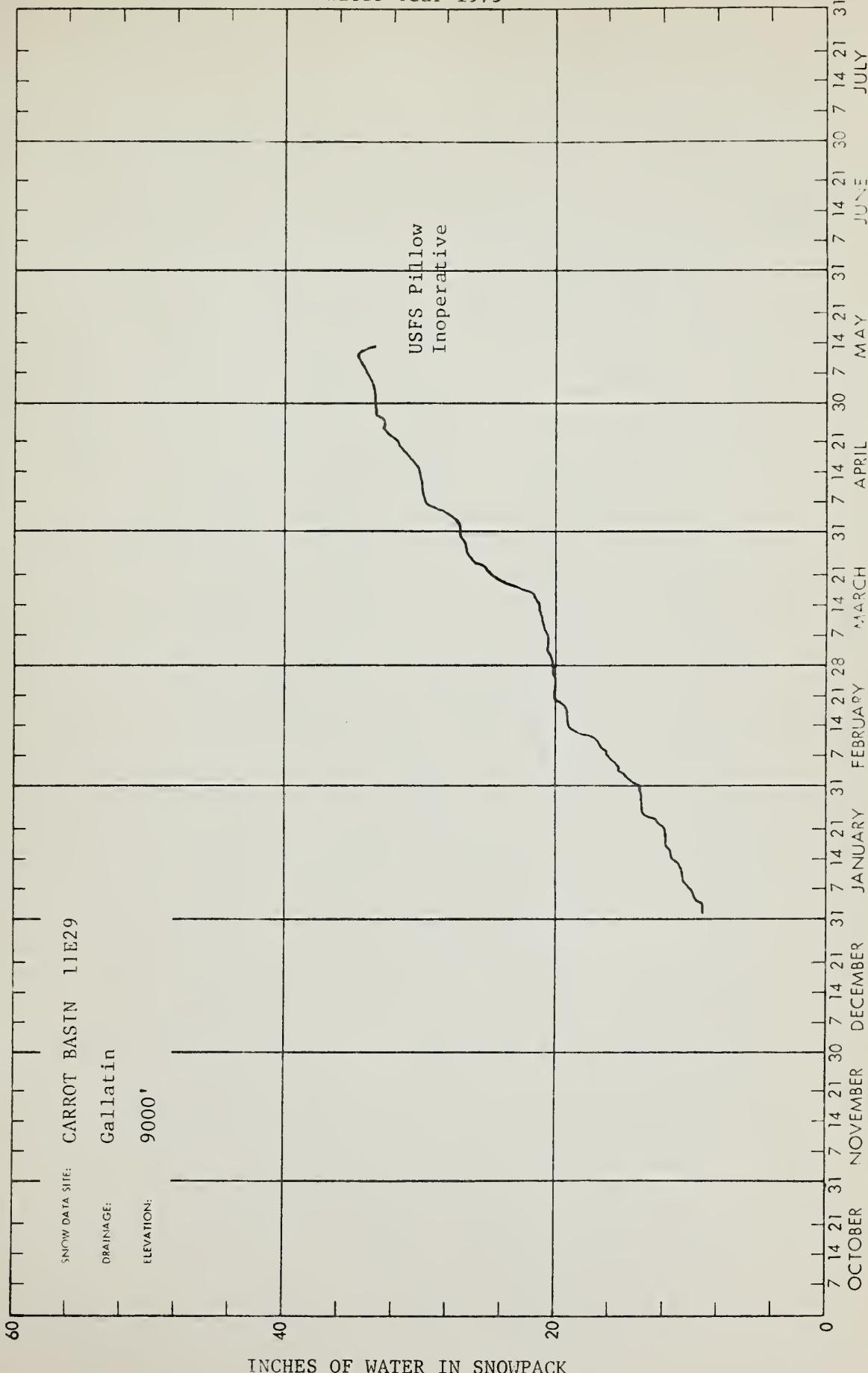
DRAINAGE: Madison 600



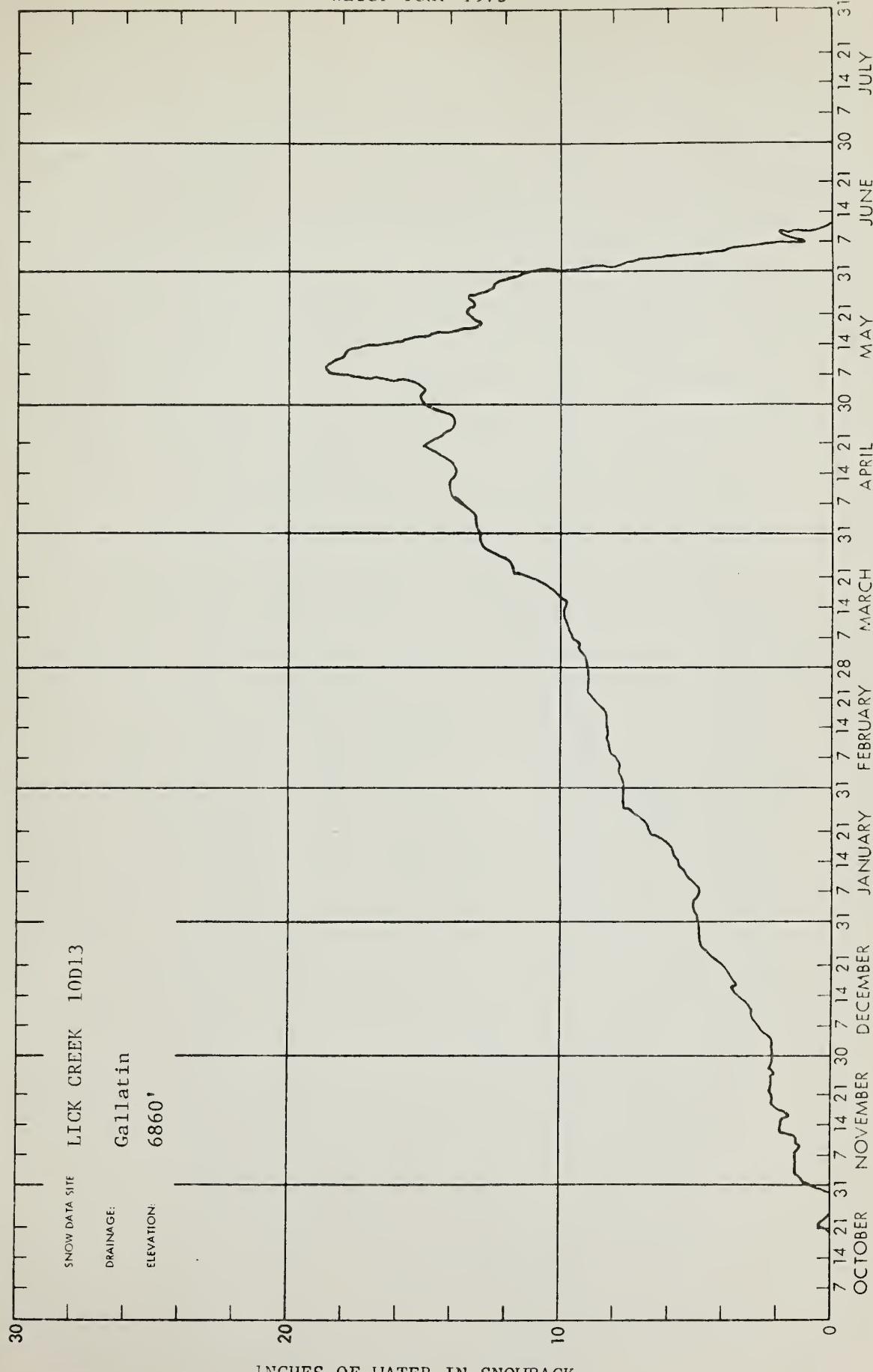
SNOW PILLOW DATA
Water Year 1975



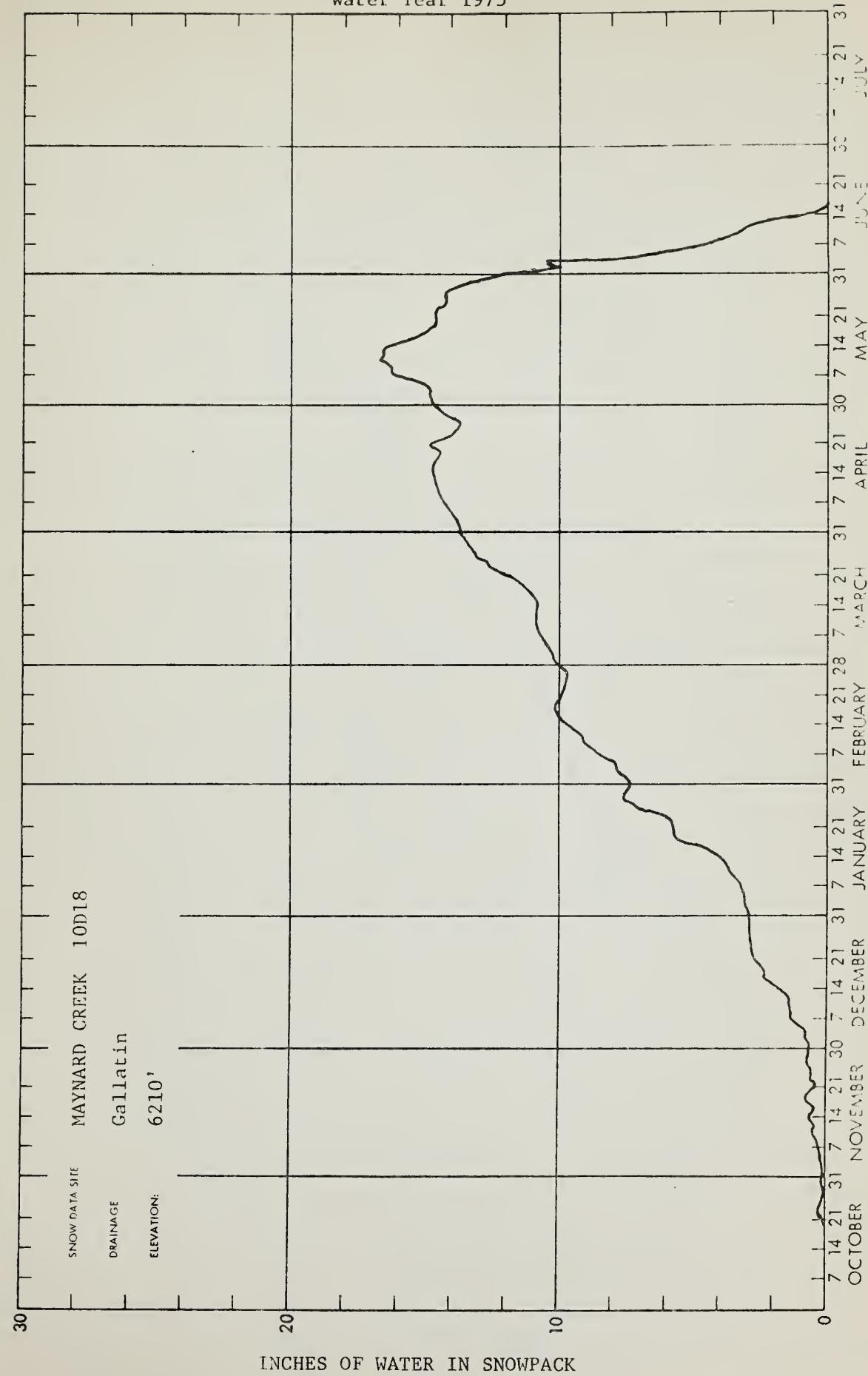
SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
Water Year 1975

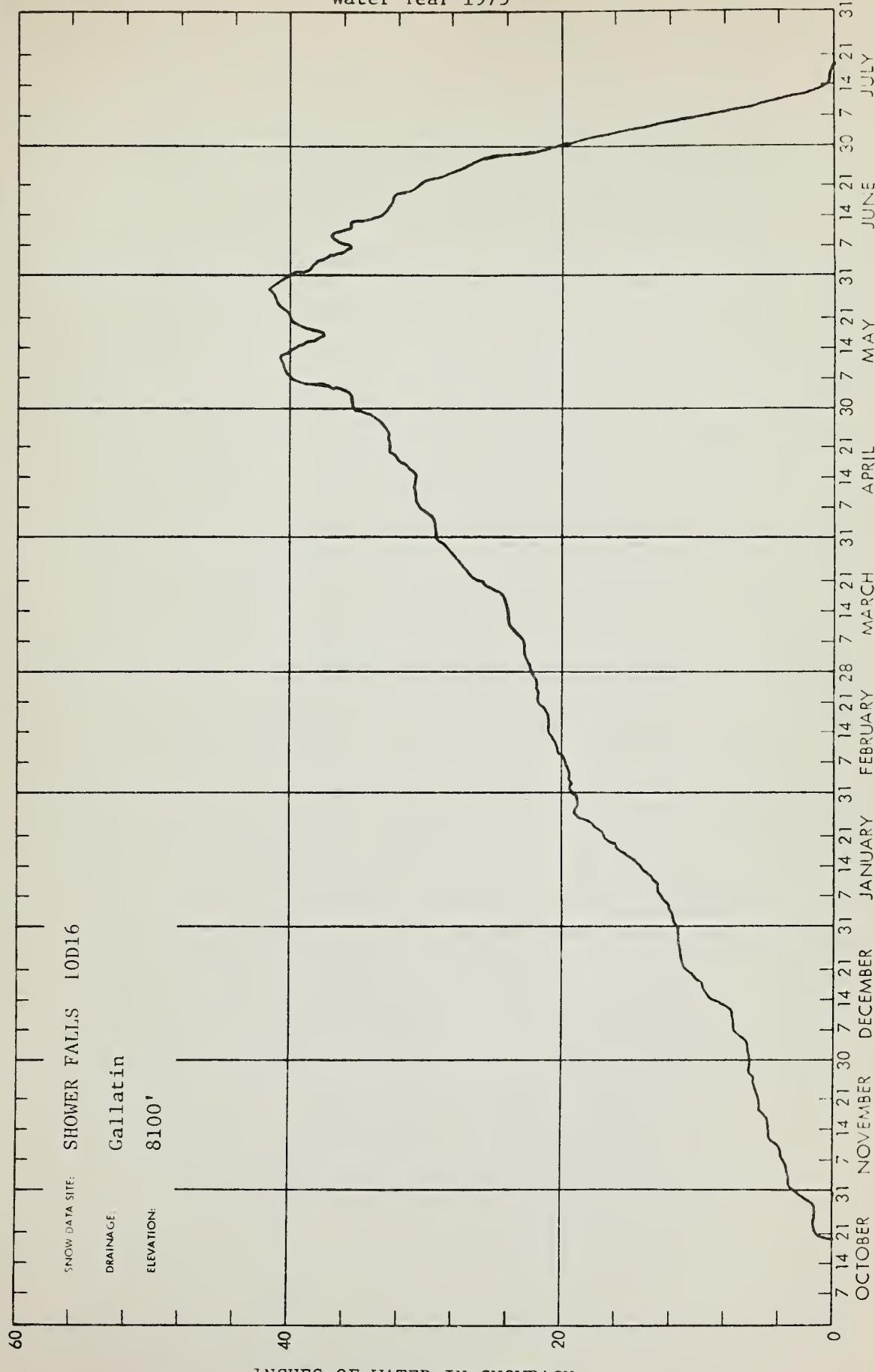
WSFB-X13C

SNOW DATA SITE: SHOWER FALLS 1OD16

DRAINAGE:

Gallatin

ELEVATION:
8100'

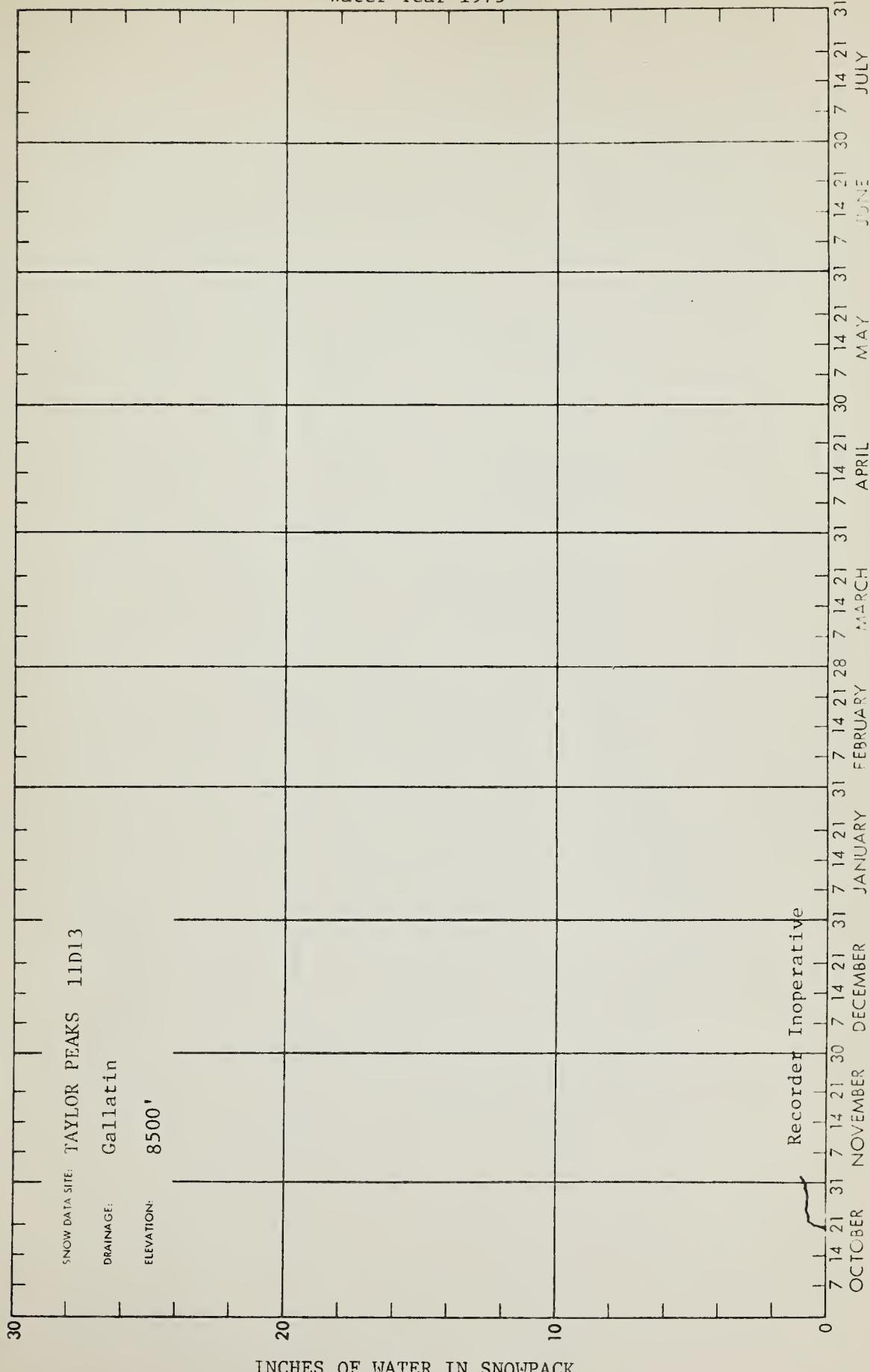


**SNOW PILLOW DATA
Water Year 1975**

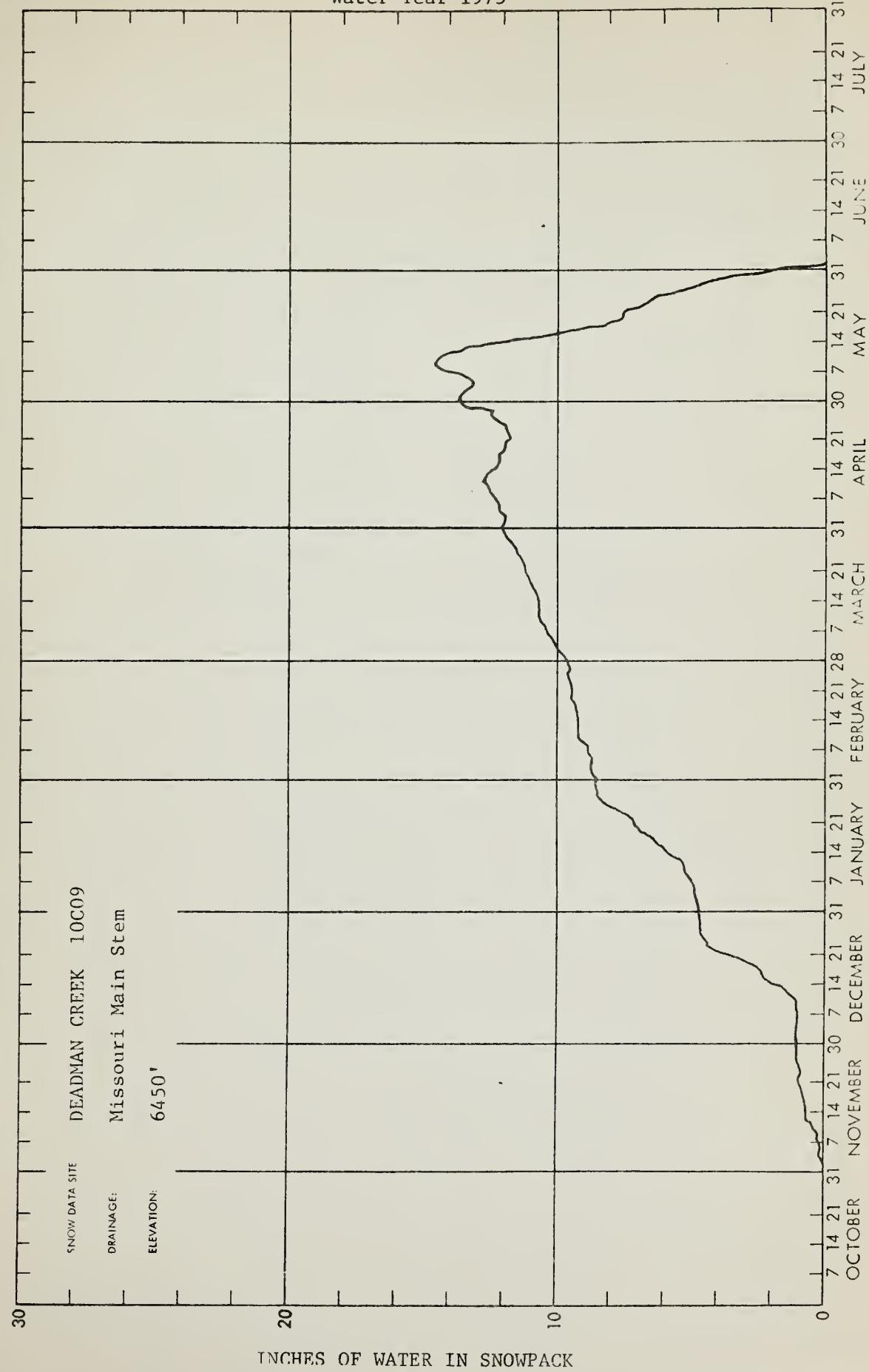
SNOW DATA SITE: TAYLOR PEAKS 11D13

Gallatin DRAINAGE:

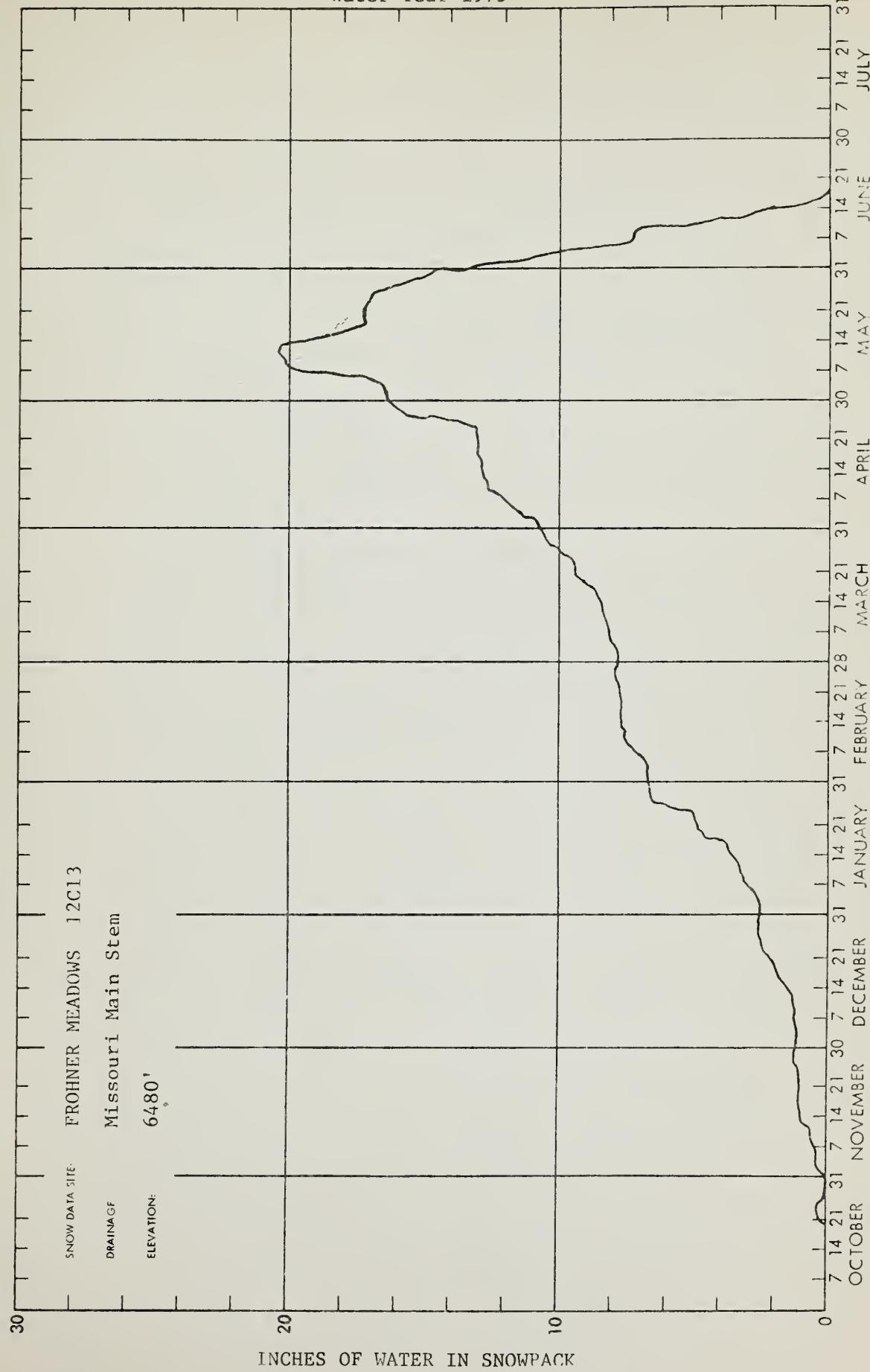
ELEVATION: 8500'



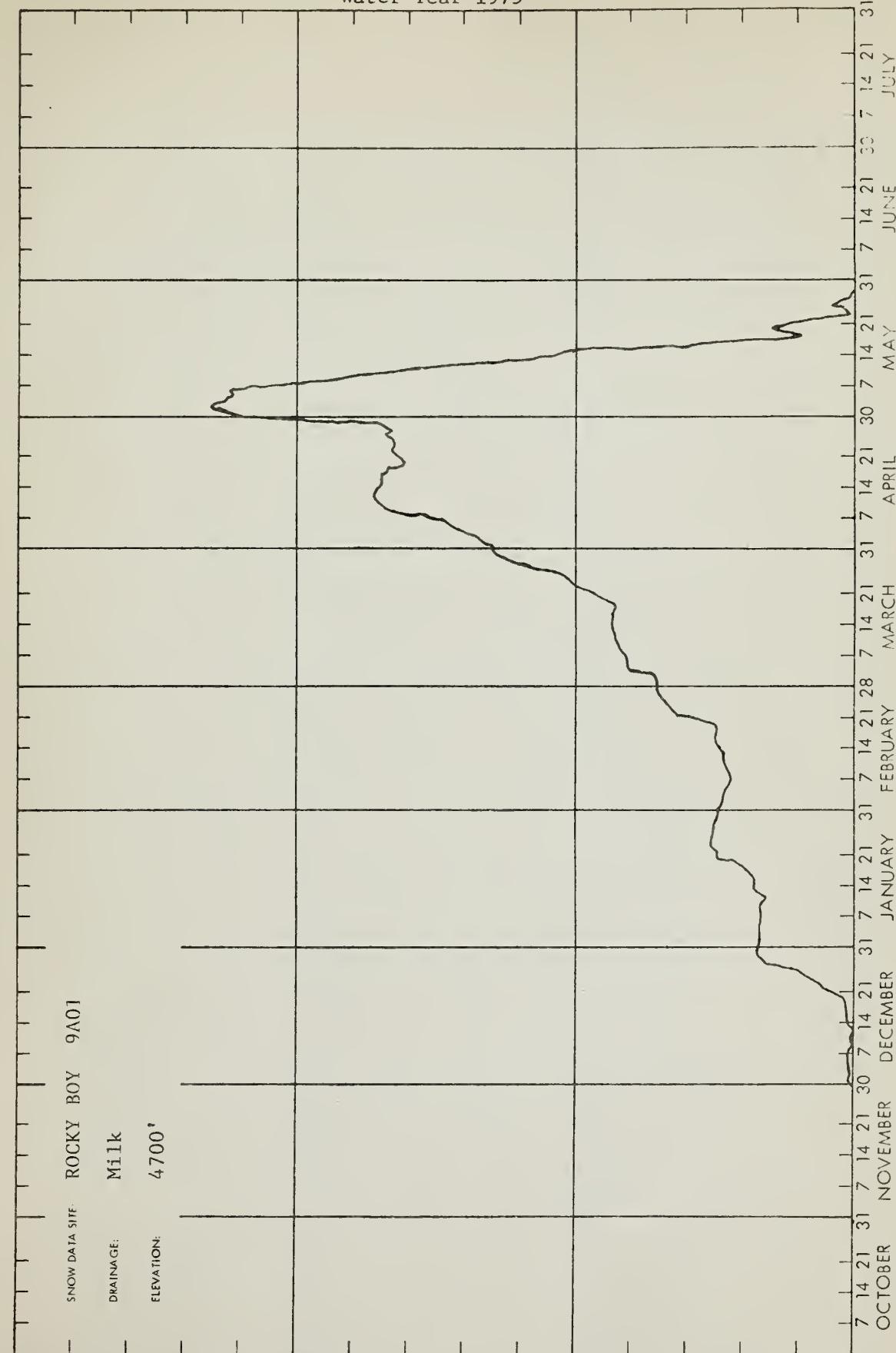
SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
Water Year 1975

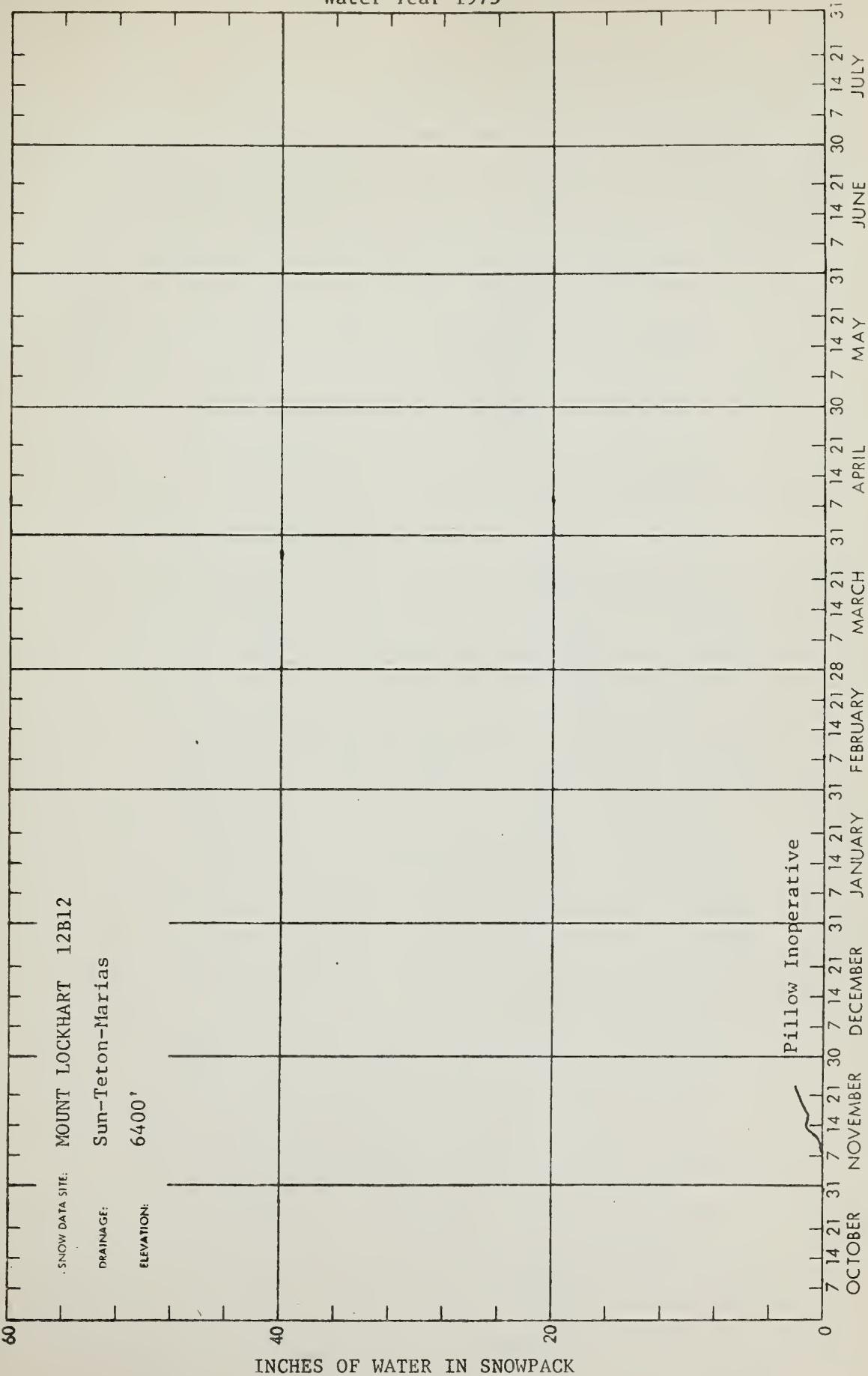


SNOW PILLOW DATA
Water Year 1975

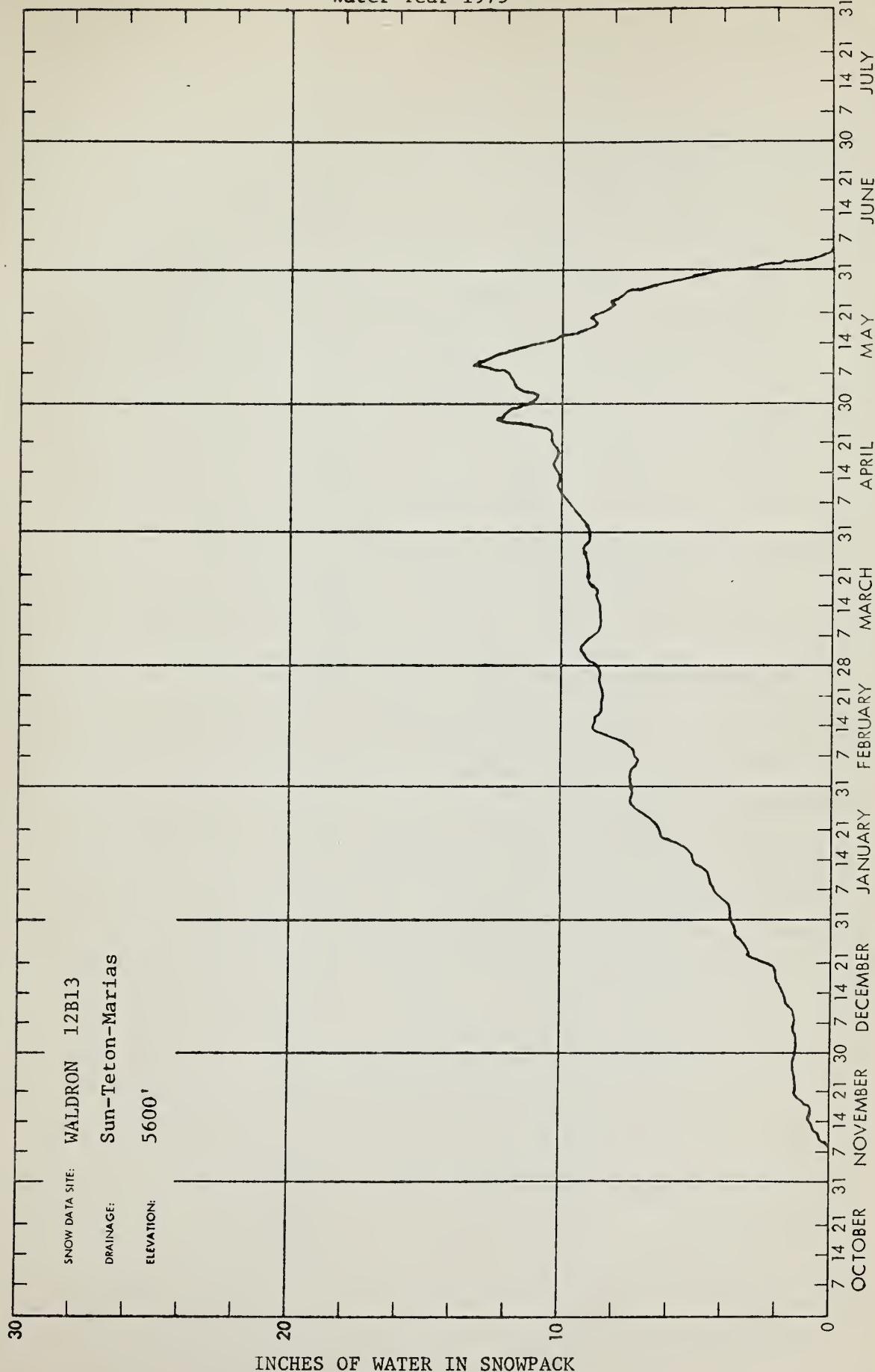


**SNOW PILLOW DATA
Water Year 1975**

SNOW DATA SITE: MOUNT LOCKHART 112B12
 DRAINAGE: Sun-Teton-Marias
 ELEVATION: 6400'



SNOW PILLOW DATA
Water Year 1975

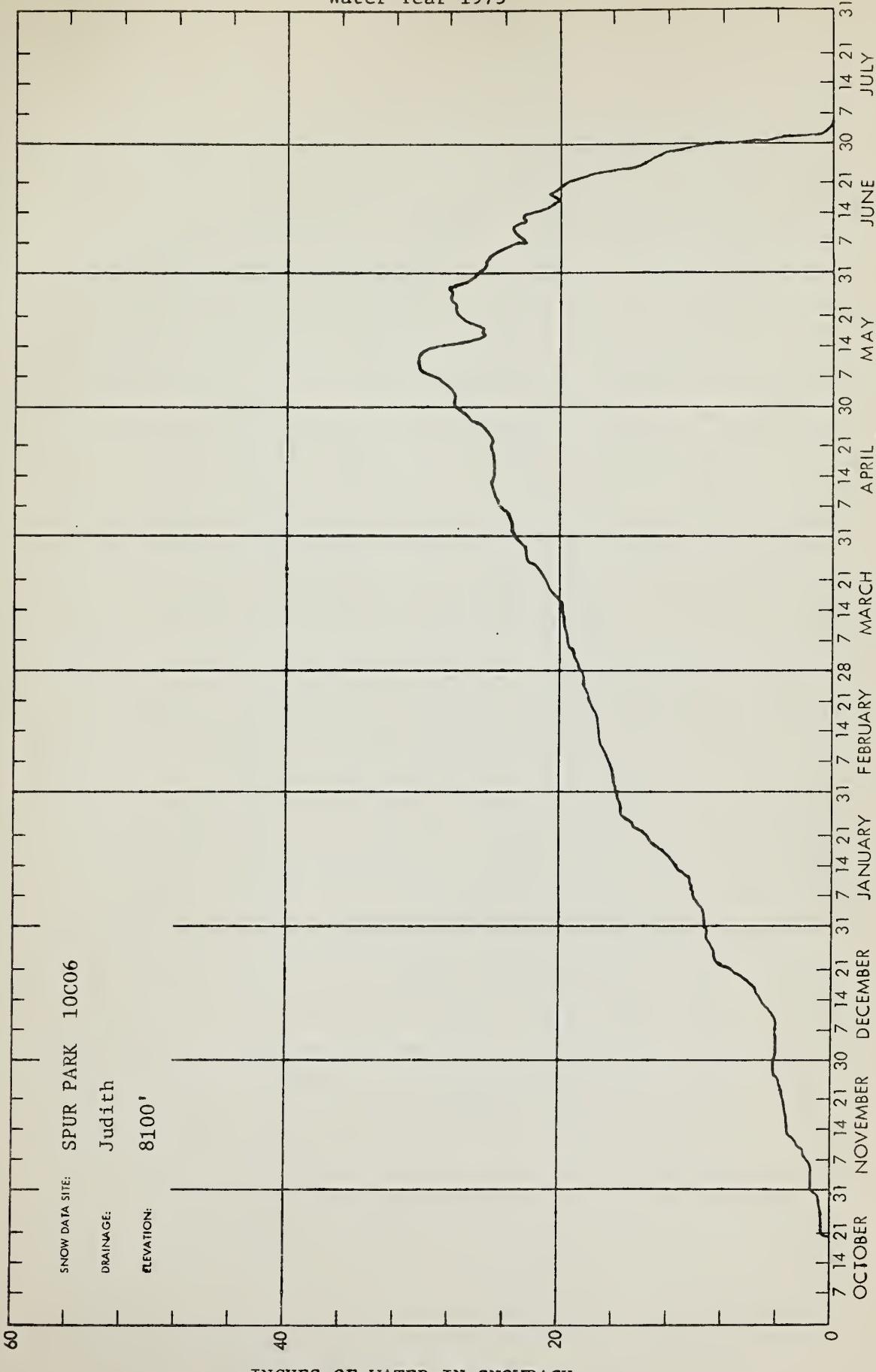


SNOW PILLOW DATA
Water Year 1975

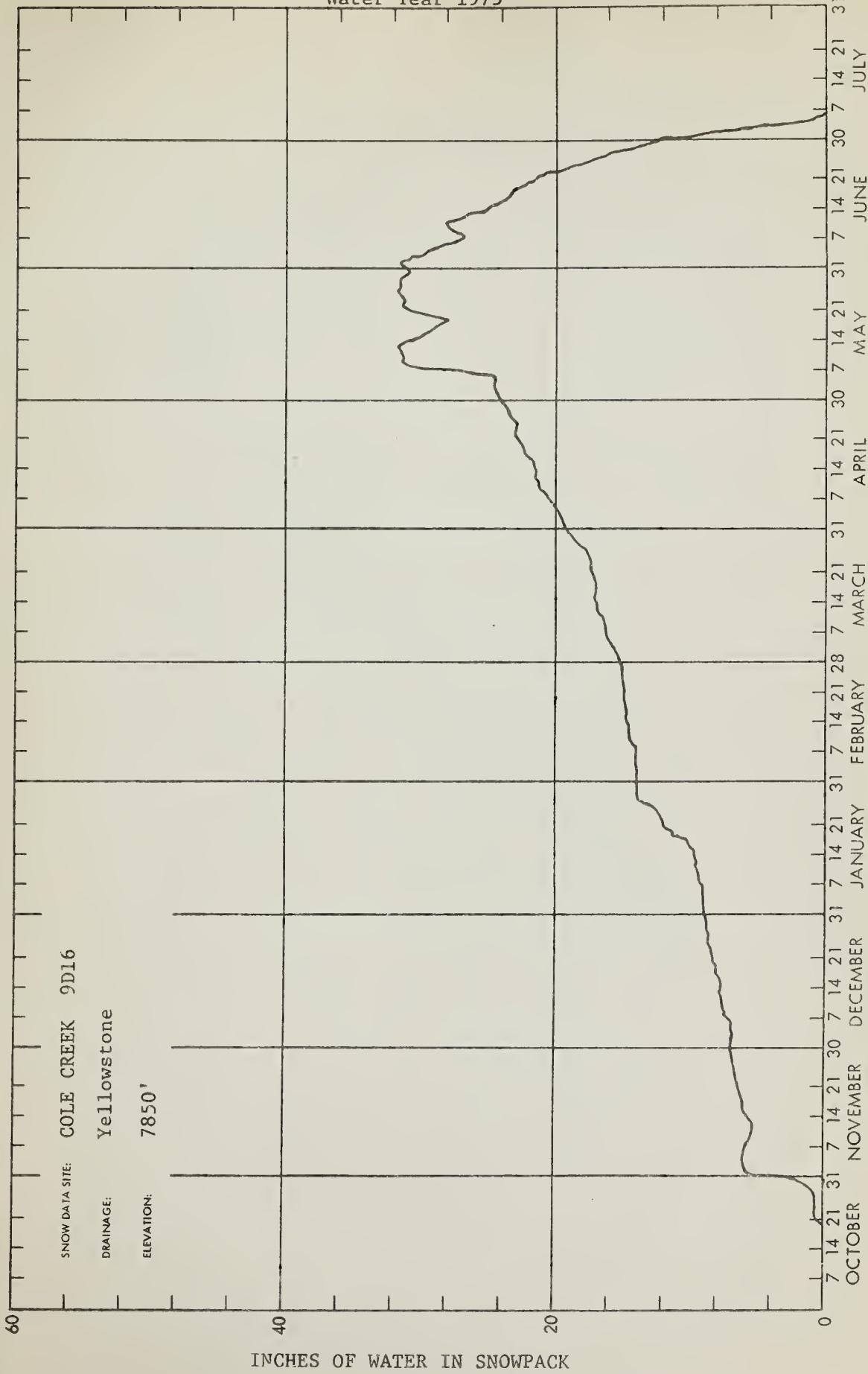
SNOW DATA SITE: SPUR PARK 10C06

DRAINAGE: Judith

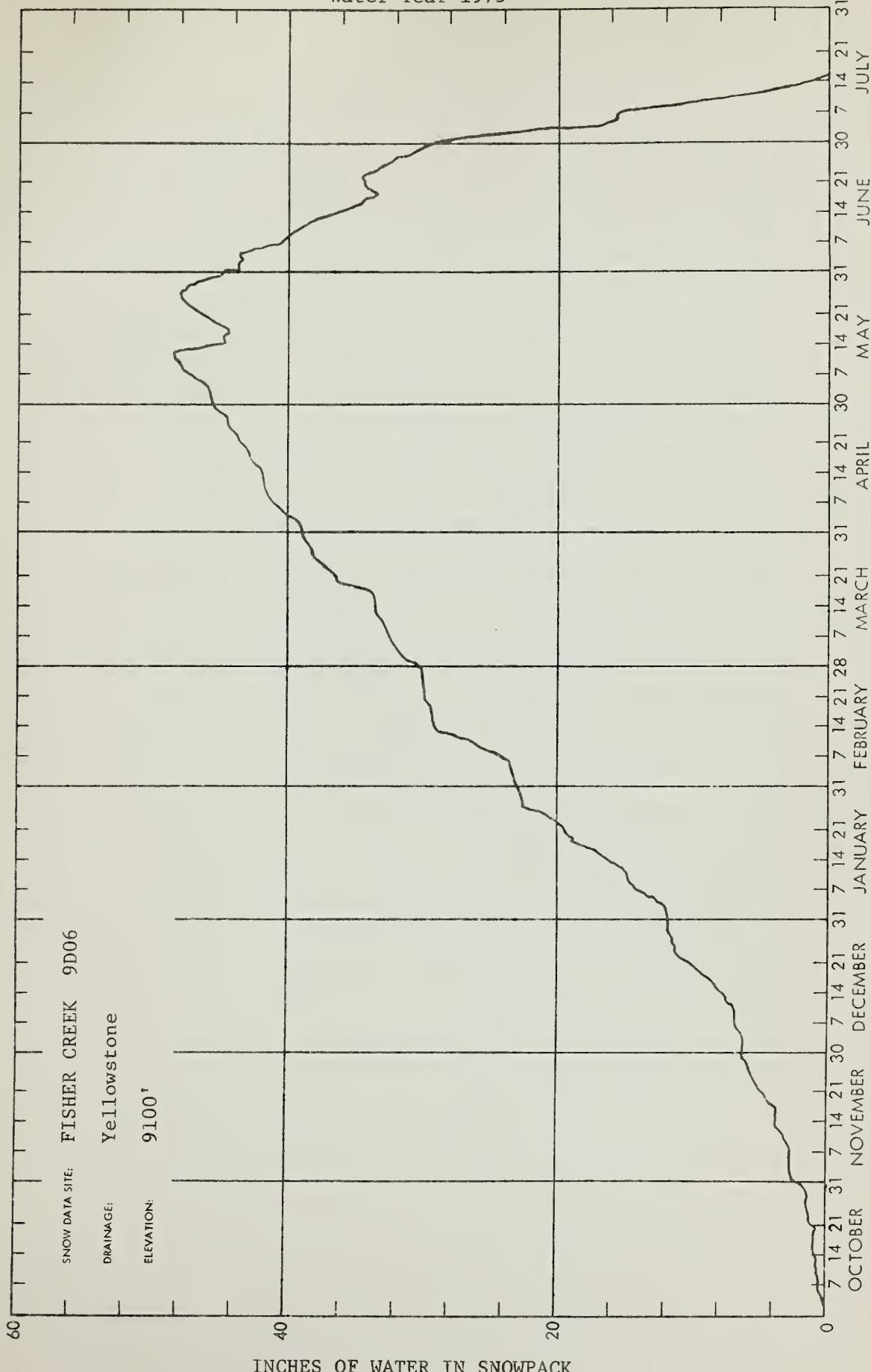
ELEVATION: 8100'



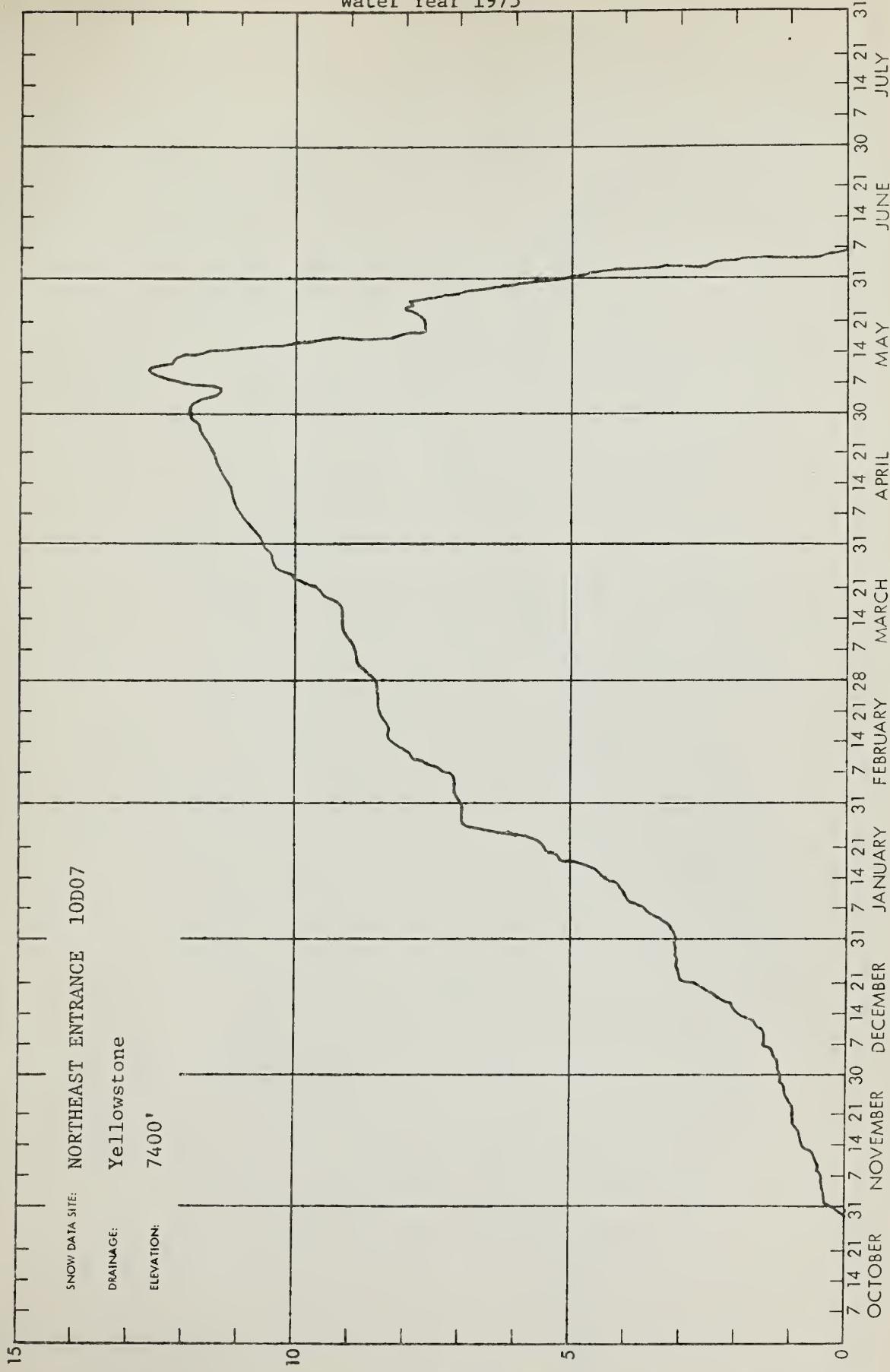
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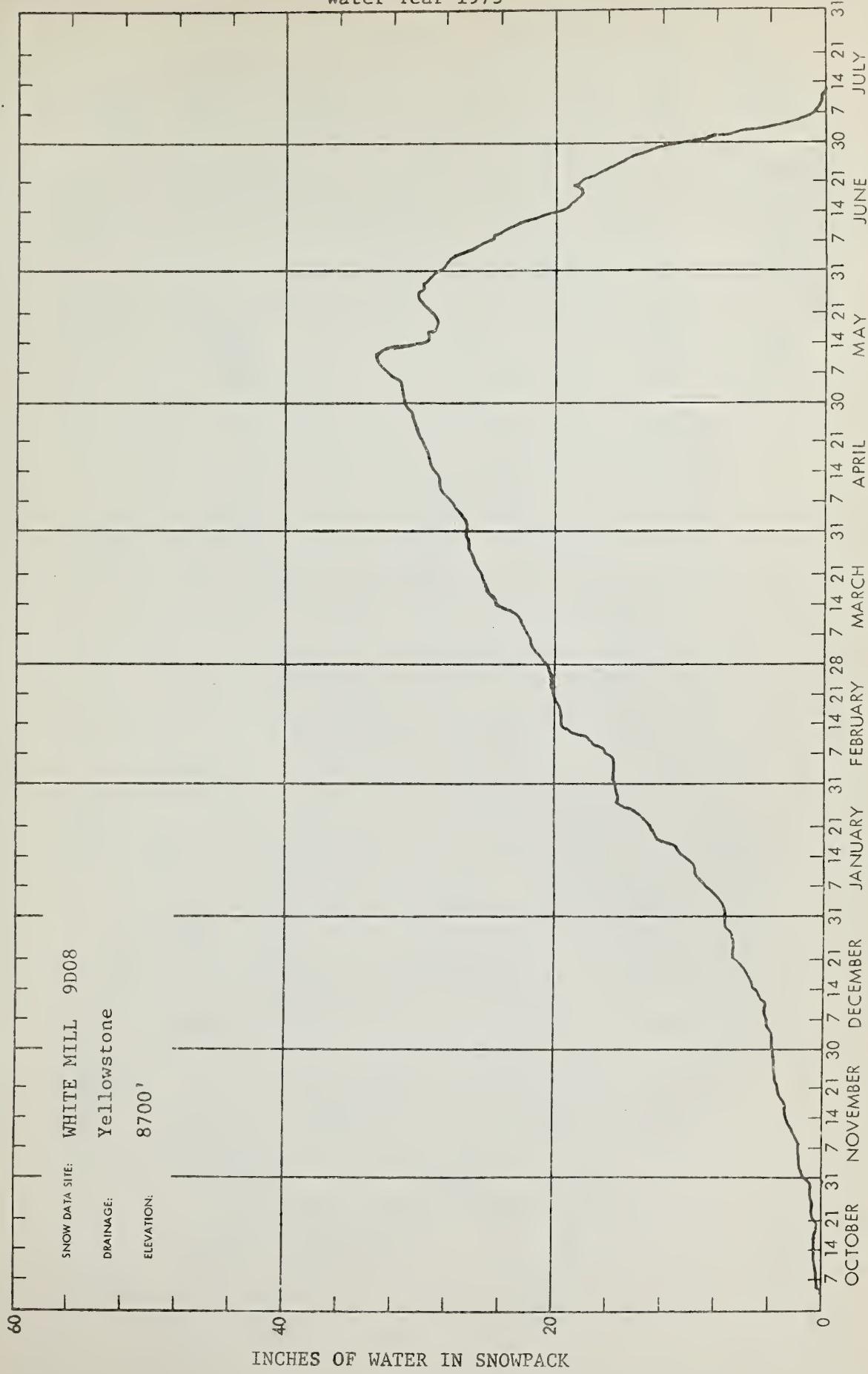
SNOW PILLOW DATA
Water Year 1975

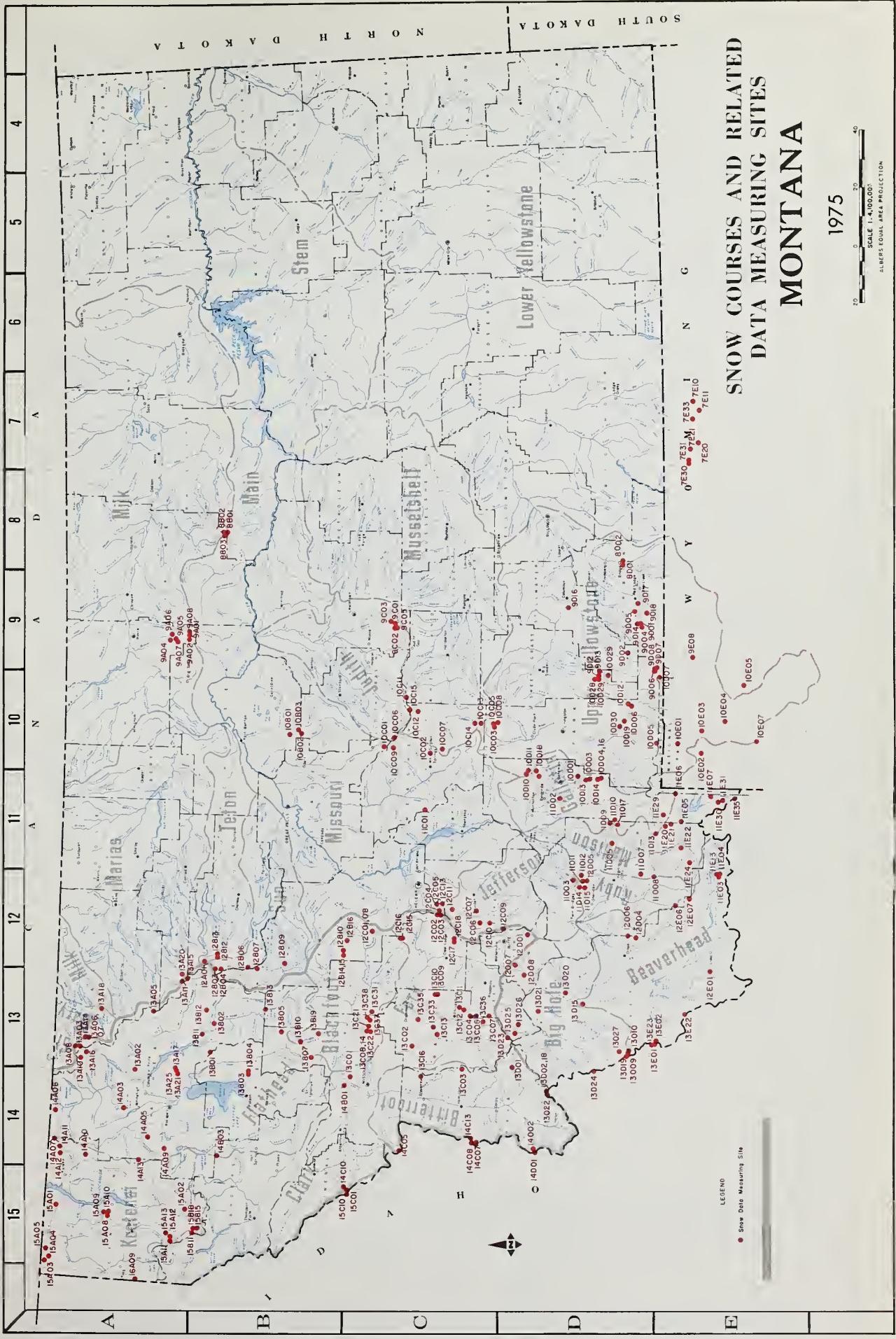


SNOW PILLOW DATA
Water Year 1975



SNOW PILLOW DATA
Water Year 1975





SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA

INDEX to MONTANA SNOW COURSES and DATA SITE

Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Water Survey of Canada, Calgary, Department of the Environment

Water Resources Service, Department of Lands, Forests and Water Resources, British Columbia

Federal:

Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
Soil Conservation Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of the Interior
Bonneville Power Administration
Bureau of Indian Affairs
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
National Park Service

STATE

Montana Association of Conservation Districts
Montana Department of Fish and Game
Montana Department of Natural Resources and Conservation

Montana State University - Agricultural Experiment Station

North Montana Branch Station - Agricultural Experiment Station

University of Montana - School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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